

Appendix E:

References

Chapter I:

Cleaner Air

CNN.com. "Asian Brown Cloud" poses global threat. August 12, 2002 (August 12, 2002; <http://www.cnn.com/2002/WORLD/asiapcf/south/08/12/asia.haze.glb/index.html>).

Centers for Disease Control. Blood lead levels in young children – United States and selected states, 1996-1999. *Morbidity and Mortality Weekly Report* 49 (50): 1133 (2000).

Centers for Disease Control, National Center for Health Statistics. Asthma prevalence, health care use and mortality, 2000-2001. January 28, 2003. (February 14, 2003; <http://www.cdc.gov/nchs/products/pubs/pubd/hestats/asthma/asthma.htm>).

DeMora, S., S. Demers, and M. Vernet. *The Effects of UV Radiation in the Marine Environment*, Cambridge, UK: Cambridge University Press, 2000.

Friedman, Michael S., K.E. Powell, L. Hutwagner, L.M. Graham, and W.G. Teague. Impacts of changes in transportation and commuting behaviors during the 1996 Summer Olympics Games in Atlanta on air quality and childhood asthma. *The Journal of the American Medical Association* 285 (7): 897-905 (2001).

Hackshaw, A.K. Lung cancer and passive smoking. *Statistical Methods in Medical Research* 7 (2): 119- 136 (1998).

Mannino, D.M., J.E. Moorman, B. Ingsley, D. Rose, and J. Repace. Health effects related to environmental tobacco smoke exposure in children in the United States: data from the third National Health and Nutritional Examination Survey. *Archives of Pediatric and Adolescent Medicine* 155 (1): 36- 41 (2001).

McConnell, R.K. Berhane, F. Gilliland, S.J. London, T. Islam, W. Gauderman, A. James, M. Edward, H.G. Margolis, and J.M. Peters. Asthma in exercising children exposed to ozone: a cohort study. *The Lancet* 359: 386-391 (2002).

Montzka, S.A., J.H. Butler, J.W. Elkins, T.M. Thompson, A.D. Clarke, and L.T. Lock. Present and future trends in the atmospheric burden of ozone-depleting halogens. *Nature* 398: 690-694 (1999).

National Acid Precipitation Assessment Program. *Acid Deposition: State of Science and Technology. Volume II. Aquatic Processes and Effects*, Washington, DC: National Acid Precipitation Assessment Program, 1991.

National Aeronautics and Space Administration. Ozone Levels Over North America - NIMBUS- 7/TOMS. March 1979 and March 1994. (January 24, 2003; http://epa.gov/ozone/science/glob_dep.html).

National Aeronautics and Space Administration, Advanced Supercomputing Division. August 14, 2002. (August 14, 2002; <http://www.nas.nasa.gov/About/Education/Ozone.html>).

National Research Council. *Health Effects of Exposure to Radon: BEIR VI; Sixth Committee on Biological Effects of Ionizing Radiation*, Washington, DC: National Academies Press, 1998.

Northeast States for Coordinated Air Use Management (NESCAUM). Why clean air? 2003. (August, 2002; <http://www.nescaum.org/cleanair.html>).

Pope, C.A., III, R.T. Burnett, M.J. Thun, E.E. Calle, D. Krewski, K. Ito, and G.D. Thurston. Lung cancer, cardiopulmonary mortality, and long-term exposure to fine particulate air pollution. *Journal of American Medical Association* 287: 1132-1141 (2002).

Scientific Assessment Panel of the Montreal Protocol on Substances that Deplete the Ozone Layer. *Scientific Assessment of Ozone Depletion: 2002, Executive Summary*, Report No. 47. Geneva, Switzerland: World Meteorological Organization, Global Ozone Research and Monitoring Project, 2003.

The H. John Heinz III Center for Science, Economics, and the Environment. *The State of the Nation's Ecosystems: Measuring the Lands, Waters, and Living Resources of the United States*, New York, NY: Cambridge University Press, September 2002.

National Oceanic and Atmospheric Administration, Climate Monitoring & Diagnostics Laboratory. Halocarbons and other Atmospheric Trace Species (HATS). 2002. March 18, 2003; <http://www.emdl.noaa.gov/hats/graphs/graphs.html>).

United Nations Environment Programme. *Environmental Effects of Ozone Depletion: 1994 Assessment*, Nairobi, Kenya: United Nations Environment Programme, Secretariat for The Vienna Convention for the Protection of the Ozone Layer and The Montreal Protocol on Substances that Deplete the Ozone Layer, November 1994.

United Nations Environment Programme. *Production and Consumption of Ozone Depleting Substances under the Montreal Protocol 1986-2000*, Nairobi, Kenya: United Nations Environment Programme, Secretariat for The Vienna Convention for the Protection of the Ozone Layer and The Montreal Protocol on Substances that Deplete the Ozone Layer, April 2002.

United States-Canada Air Quality Committee. *Ground-Level Ozone: Occurrence and Transport in Eastern North America; A Report by the United States-Canada Air Quality Committee; Subcommittee 1: Program*

Monitoring and Reporting, Washington, DC and Ottawa, Ontario: International Joint Commission, March 1999.

United States Code. Clean Air Act, as amended in 1990, Title 1: Air Pollution Prevention and Control. 42 U.S.C. 7408 and 7409.

U.S. Department of Agriculture. *National Report on Sustainable Forests - 2003, Final Draft*, Washington, DC: U.S. Department of Agriculture, Forest Service, 2002.

U.S. Department of Education, National Center for Education Statistics. *Condition of America's Public School Facilities: 1999*, NCES 2000-032. June 2000.

U.S. Department of Health and Human Services, National Center for Health Statistics. *Healthy People 2000 Final Review*, DHHS Publication No. 01-0256. Hyattsville, MD: Public Health Service, October 2001.

U.S. Environmental Protection Agency. *Air Quality Criteria for Particulate Matter and Sulfur Oxides*, EPA 600-P-82-020a-c. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, Environmental Criteria and Assessment Office, 1982.

U.S. Environmental Protection Agency. *Second Addendum to the Air Quality Criteria for Particulate Matter and Sulfur Oxides (1982): Assessment of Newly Available Health Effects Information*, EPA-450-5-86-012. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, Environmental Criteria and Assessment Office, 1986.

U.S. Environmental Protection Agency. *Regulatory Impact Analysis: Protection of Stratospheric Ozone*, Washington, DC: U.S. Environmental Protection Agency, Stratospheric Protection Program, Office of Program Development, Office of Air and Radiation, August 1988.

U.S. Environmental Protection Agency. *Non-occupational Pesticide Exposure Study*, EPA-600-3-90-003. Research Triangle Park, NC: U.S. Environmental Protection Agency, Atmospheric Research and Exposure Assessment Laboratory, January 1990.

U.S. Environmental Protection Agency. *National Residential Radon Survey: Summary Report*, EPA-402-R-92-011. Washington, DC: U.S. Environmental Protection Agency, Office of Air and Radiation, October 1992.

U.S. Environmental Protection Agency. *Respiratory Health Effects of Passive Smoking: Lung Cancer and Other Disorders*, EPA 600-6-90-006F. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development, Office of Health and Environmental Assessment, December 1992.

U.S. Environmental Protection Agency. *Air Quality Criteria for Oxides of Nitrogen*, EPA 600-8-91-049aF-cF. Research Triangle Park, NC: U.S.

Environmental Protection Agency, Office of Research and Development, Environmental Criteria and Assessment Office, August 1993.

U.S. Environmental Protection Agency. Map of radon zones. EPA 402-F-93-013. September 1993. <http://www.epa.gov/iaq/radon/zonemap.html>.

U.S. Environmental Protection Agency. *A Standardized EPA Protocol for Characterizing Indoor Air Quality in Large Office Buildings*, Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development and Office of Air and Radiation, June 1994.

U.S. Environmental Protection Agency. *Supplement to the Second Addendum (1986) to the Air Quality Criteria for Particulate Matter and Sulfur Oxides (1982): Assessment of New Findings on Sulfur Dioxide Acute Exposure Health Effects in Asthmatic Individuals*, EPA 600-FP-93-002. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, August 1994.

U.S. Environmental Protection Agency. *Regulatory Impact Analysis for the Petroleum Refinery NESHAP*, EPA 452-R-95-004. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, July 1995.

U.S. Environmental Protection Agency. *Air Quality Criteria for Particulate Matter*, EPA 600-P-95-001aF-cF.3v. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, National Center for Environmental Assessment, April 1996.

U.S. Environmental Protection Agency. *Air Quality Criteria for Ozone and Related Photochemical Oxidants*, EPA 600-P-93-004aF-cF. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, National Center for Environmental Assessment, July 1996.

U.S. Environmental Protection Agency. *Regulatory Impact Analysis for the Particulate Matter and Ozone National Ambient Air Quality Standards and Proposed Regional Haze Rule*, Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, July 1997.

U.S. Environmental Protection Agency. *Mercury Study Report to Congress*, EPA-452-R-97-003. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards and Office of Research and Development, December 1997.

U.S. Environmental Protection Agency. 40 CFR Part 50: National ambient air quality standards for particulate matter; final rule. *Federal Register* 62 (138): 2-102 (1997).

U.S. Environmental Protection Agency. *National Air Quality and Emissions Trends Reports*, 1997, EPA 454-R-98-016. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, December 1998.

U.S. Environmental Protection Agency. *The Benefits and Costs of the Clean Air Act: 1990 to 2010. Final Report to Congress*, EPA 410-R-99-001. Washington, DC: U.S. Environmental Protection Agency, Office of Air and Radiation, Office of Policy, November 1999.

U.S. Environmental Protection Agency. *Air Quality Criteria for Carbon Monoxide*, EPA 600-P-99-001F. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office Research and Development, National Center for Environmental Assessment. June 2000.

U.S. Environmental Protection Agency. *National Air Quality and Emissions Trends Report*, 1999, EPA 454-R-01-004. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, March 2001.

U.S. Environmental Protection Agency. *Latest Findings on National Air Quality: 2000 Status and Trends*, EPA 454-K-01-002. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, September 2001.

U.S. Environmental Protection Agency. *Air Trends: Metropolitan area trends*, Table A-17. 2001. (February 25, 2003; <http://www.epa.gov/airtrends/metro.html>).

U.S. Environmental Protection Agency. *Air Quality Criteria for Particulate Matter, Third External Review Draft, Volume II*, EPA 600-P-99-002bC. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, National Center for Environmental Assessment, April 2002.

U.S. Environmental Protection Agency. *Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990- 2000*, EPA 430-R-02-003. Washington, DC: U.S. Environmental Protection Agency, Office of Atmospheric Programs, April 2002.

U.S. Environmental Protection Agency, Office of Air and Radiation, Technology Transfer Network. National air toxic assessment: summary of results. September 18, 2002 (January 27, 2003; <http://www.epa.gov/ttn/atw/nata/risksum.html>).

U.S. Environmental Protection Agency. *Latest Findings on National Air Quality: 2001 Status and Trends*, EPA 454-K-02-001. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, September 2002.

U.S. Environmental Protection Agency. *EPA Acid Rain Program: 2001 Progress Report*, EPA 430-R-02- 009. Washington, DC: U.S. Environmental Protection Agency, Office of Air and Radiation, November 2002.

U.S. Environmental Protection Agency. 40 CFR Part 50: National ambient air quality standards for ozone: final response to remand; final rule. *Federal Register* 68 (3): 614-645 (2003).

U.S. Environmental Protection Agency. *Response of Surface Water Chemistry to the Clean Air Act Amendments of 1990*, EPA 620-R-03-001. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, January 2003.

U.S. General Accounting Office. *Pesticides: Use, Effects, and Alternatives to Pesticides in Schools*, GAO/RCED-00-17. Washington, DC: U.S. General Accounting Office, Resources, Community, and Economic Development Division, 1999.

U.S. Institute of Medicine, Committee on the Health Effects of Indoor Allergens. *Indoor Allergens: Assessing and Controlling Adverse Health Effects*, Washington, DC: National Academy Press, 1993.

U.S. Institute of Medicine, Committee on the Assessment of Asthma and Indoor Air. *Clearing the Air: Asthma and Indoor Air Exposures, Executive Summary*, Washington, DC: National Academy Press, 2000.

U.S. International Trade Commission. 1993. *Synthetic Organic chemicals; U.S. Production and Sales*, Washington DC: Government Printing Office, 1994.

Wingo, Phyllis A., Ries, Lynn A.G., Giovino, Gary A., et al. Annual report to the nation on the status of cancer, 1973-1996, with a special section on lung cancer and tobacco smoking. *Journal of the National Cancer Institute* 91 (8): 675-690 (1999).

Chapter 2: Purer Water

Alley, W.M., T.E. Reilly, and O.L. Franke. *Sustainability of Ground-water Resources*, U.S. Geological Survey Circular 1186. Denver, CO: U.S. Geological Survey, 1999.

Baker, L.A., A. Herlihy, P. Kaufmann, and J. Eilers. Acid lakes and streams in the United States: the role of acid deposition. *Science* 252: 1151-1154 (1991).

Batiuk, R.A., P. Bergstrom, M. Kemp, E. Koch, L. Murray, J.C. Stevenson, R. Bartleson, V. Carter, N.B. Rybicki, J.M. Landwehr, C. Gallegos, L. Karrh, M. Naylor, D. Wilcox, K.A. Moore, S. Ailstock, and M. Teichberg. *Chesapeake Bay Submerged Aquatic Vegetation Water Quality and Habitat- Based Requirements and Restoration Targets: A Second Technical Synthesis*, CBP-TRS 245-00, EPA 903-R-00-014. Annapolis, MD: U.S. Environmental Protection Agency, Chesapeake Bay Program, 2000.

Boesch, D.F., R.B. Brinsfield, and R.E. Magnien. Chesapeake Bay eutrophication: scientific understanding, ecosystem restoration, and challenges for agriculture. *Journal of Environmental Quality* 30: 303-320 (2001).

Bricker, S.B., C.G. Clement, D.E. Pirhalla, S.P. Orlando, and D.R.G. Farrow. *National Estuarine Eutrophication Assessment: Effects of Nutrient Enrichment in the Nation's Estuaries*, Silver Spring, MD: National Oceanic and Atmospheric Administration, National Ocean Service, Special Projects Office and the National Centers for Coastal Ocean Science, 1999.

Chapman, P.M., R.N. Dexter, and E.R. Long. Synoptic measures of sediment contamination, toxicity, and infaunal community composition (the sediment quality triad) in San Francisco Bay. *Marine Ecology Progress Series* 37: 75-96 (1987).

Committee on Environment and Natural Resources of the National Science and Technology Council. *Integrated Assessment of Hypoxia in the Northern Gulf of Mexico*, Washington, DC: National Science and Technology Council Committee on Environment and Natural Resources, 2000.

Council for Agricultural Science and Technology. *Gulf of Mexico Hypoxia: Land and Sea Interactions*, Report 134. Ames, IA: Council for Agricultural Science and Technology, June 1999.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. *Classification of Wetlands and Deepwater Habitats of the United States*, FW/OBS-79/31. Washington, DC: U.S. Fish and Wildlife Service, 1979.

Dahl, T.E. *Status and Trends of Wetlands in the Conterminous United States 1986 to 1997*, Washington, DC: U.S. Department of the Interior, U.S. Fish and Wildlife Service, 2000.

Dahl, T.E. *Wetland Losses in the United States 1780's to 1980's*. Washington, DC: U.S. Department of the Interior, Fish and Wildlife Service, 1990.

Dahl, T.E., and C.E. Johnson. *Status and Trends of Wetlands in the Conterminous United States, Mid-1970s to Mid-1980*, Washington, DC: U.S. Department of the Interior, U.S. Fish and Wildlife Service, 1991.

Danielson, T. J. *Wetland Bioassessment Fact Sheets*, EPA 843-F-98-001 a-j. Washington, DC: U.S. Environmental Protection Agency, Office of Wetlands, Oceans, and Watersheds, Wetlands Division, July 1998.

Davis, D.G. North American Birds - A Rough Assessment of Wetland Dependency., unpublished. Preparation for a presentation given at the Wetlands, Migratory Birds, and Ecotourism Workshop in Newburyport, Massachusetts, October 24, 2000.

Day Boylan, K. and D.R. MacLean. Linking species loss with wetland loss. *National Wetlands Newsletter* 19 (6), (Nov/Dec 1997).

Diaz, R.J. and R. Rosenberg. Marine benthic hypoxia: a review of its ecological effects and the behavioural responses of benthic macrofauna. *Oceanography and Marine Biology Annual Review* 33: 245-303 (1995).

Duda, A.M. Municipal point source and agricultural nonpoint source contributions to coastal eutrophication. *Water Resources Bulletin* 18: 397-407 (1982).

Environment Canada and U.S. Environmental Protection Agency. *The Great Lakes, An Environmental Atlas and Resource Book*, Toronto, Ont: Government of Canada and Chicago, IL: United States Environmental Protection Agency, Great Lakes National Program Office, 1995.

Fisher, S.G. Stream ecosystems of the western United States. In C.E. Cushing, K.W. Cummings, G.W. Minshall (eds.), *River and Stream Ecosystems, Ecosystems of the World* 22, New York, NY: Elsevier Press, 1995.

Fraye, W.E., T.J. Monahan, D.C. Bowden, and F.A. Graybill. *Status and Trends of Wetlands and Deepwater Habitats in the Conterminous United States, 1950's to 1970's*, Fort Collins, CO: Colorado State University, Department of Forest and Wood Sciences, 1983.

Gilliom, R.J., D.K. Mueller, J.S. Zogorski, and S.J. Ryker. A national look at water quality. *Water Resources Impact* 4: 12-16 (2002).

Houser, L.S. and F.J. Silva. *National Register of Shellfish Production Areas*, PHS Publication No. 1500. Washington, DC: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Environmental Engineering and Food Protection, Shellfish Sanitation Branch, 1966.

Hoxie, N.J., J.P. Davis, J.M. Vergeront, R.D. Nashold, and K.A. Blair. Cryptosporidiosis - associated mortality following a massive waterborne outbreak in Milwaukee, WI. *American Journal of Public Health* 87 (12): 2032-2035 (1997).

Kaufmann, P.R., P. Levine, E.G. Robison, C. Seeliger, and D.V. Peck. *Surface waters: Quantifying Physical Habitat in Wadeable Streams*, EPA 620-R-99-003. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development, July 1999.

National Atmospheric Deposition Program, Mercury Deposition Network. Total Mercury Wet Deposition, 2001. 2001. (March 25, 2003; <http://nadp.sws.uiuc.edu/mdn/maps/2001/01MDNdepo.pdf>)

National Atmospheric Deposition Program, National Trends Network. Nitrate ion wet deposition, 2001. 2001. (March 25, 2003; <http://nadp.sws.uiuc.edu/isopleths/maps2001/no3dep.pdf>)

National Atmospheric Deposition Program, National Trends Network. Ammonium ion wet deposition, 2001. 2001. (March 25, 2003; <http://nadp.sws.uiuc.edu/isopleths/maps2001/nh4dep.pdf>)

National Oceanic and Atmospheric Administration. *The 1990 National Shellfish Register of Classified Estuarine Waters*, Rockville, MD: ORCA Strategic Environmental Assessments Division, 1991.

National Oceanic and Atmospheric Administration. *The 1995 National Shellfish Register of Classified Growing Waters*, Silver Spring, MD: ORCA, Office of Ocean Resources Conservation and Assessment, Strategic Environmental Assessments Division, 1997.

National Oceanic and Atmospheric Administration. *Population: distribution, density and growth*, NOAA's *State of the Coast Report*. Silver Spring, MD. 1998. (February 2003; http://state-of-coast.noaa.gov/bulletins/html/pop_01/pop.html).

National Research Council. *Clean Coastal Waters: Understanding and Reducing the Effects of Nutrient Pollution*, Washington, DC: National Academies Press, 2000.

Nixon, S.W. Coastal marine eutrophication: a definition, social causes, and future concerns. *Ophelia* 41: 199-219 (1995).

Paul, J.F., J.H. Gentile, K.J. Scott, S.C. Schimmel, D.E. Campbell, and R.W. Latimer. EMAP - *Virginian Province Four-year Assessment Report* (1990-1993), EPA 620-R-99-004. Narragansett, RI: U.S. Environmental Protection Agency, Office of Research and Development, Atlantic Ecology Division. October 1999.

Peierls, B.L., N.F. Caraco, M.L. Pace, and J.J. Cole. Human influence on river nitrogen. *Nature* 350: 386-387 (1991).

Peterson, S.A., N.S. Urquhart, and E.B. Welch. Sample representativeness: a must for reliable regional lake condition estimates. *Environmental Science and Technology* 33 (10): 1559-1565 (1999).

Rippey, S.R. Infectious diseases associated with molluscan shellfish consumption. *Clinical Microbiology Review* 7 (4): 419-425 (1994).

Schindler, D.W. Evolution of phosphorus limitation in lakes. *Science* 179: 260-262 (1977).

Schlesinger, W.H. *Biogeochemistry: An Analysis of Global Change*, San Diego, CA: Academic Press, 1997.

Solley, W.B., R.R. Pierce, and H.A. Perlman. *Estimated Use of Water in the United States in 1995*, U.S. Geological Survey Circular 1200. Denver, CO: U.S. Geological Survey, 1998.

Smith, R.A., G.E. Schwarz, and R.B. Alexander. Regional interpretation of water-quality monitoring data. *Water Resources Research* 33: 2781-2798 (1997).

Stoddard, J. L., A. D. Newell, N. S. Urquhart, and D. Kugler. The TIME project design: II. Detection of regional acidification trends. *Water Resources Research* 32: 2529-2538 (1996).

Stoddard, J. L., C. T. Driscoll, S. Kahl, and J. Kellogg. Can site-specific trends be extrapolated to a region? An acidification example for the Northeast. *Ecological Applications* 8: 288-299 (1998).

The H. John Heinz III Center for Science, Economics, and the Environment. *The State of the Nation's Ecosystems: Measuring the Lands, Waters, and Living Resources of the United States*, New York, NY: Cambridge University Press, September 2002.

Thrush, W.J., S.M. McBain, and L.B. Leopold. Attributes of an alluvial river and their relation to water policy and management. *Proceedings of the National Academy of Sciences* 97 (22): 11858-11863 (2000).

Turner, R.E. and N.N. Rabalais. Changes in Mississippi River water quality this century, implications for coastal food webs. *BioScience* 41: 140-147 (1991).

U.S. Department of Agriculture, Natural Resources Conservation Service. *Summary Report: 1997 National Resources Inventory (Revised December 2000)*, Washington, DC: Natural Resources Conservation Service and Ames, IA: Iowa State University, Statistical Laboratory, December 1999, revised December 2000.

U.S. Department of Commerce and U.S. Department of Health and Human Services. *1985 National Shellfish Register of Classified Estuarine Waters*, Rockville, MD: National Oceanic and Atmospheric Administration, Ocean Assessments Division and Kingstown, RI: Food and Drug Administration, Shellfish Sanitation Branch, 1985.

U.S. Environmental Protection Agency. *National Shellfish Register of Classified Estuarine Waters*, 1974, Denver, CO: U.S. Environmental Protection Agency, Office of Enforcement, National Enforcement Investigations Center, 1975.

U.S. Environmental Protection Agency. *Quality Criteria for Water - 1986*, EPA 440-5-86-001. Washington, DC: U.S. Environmental Protection Agency, Office of Water, November 1986.

U.S. Environmental Protection Agency. *America's Wetlands: Our Vital Link Between Land and Water*, EPA 843-K-95-001. Washington, DC: U.S. Environmental Protection Agency, Office of Wetlands, Oceans and Watersheds, December 1995.

U.S. Environmental Protection Agency. *Guidelines for Preparation of the Comprehensive State Water Quality Assessments (305(b) Reports) and Electronic Updates, Report Contents and Supplement*, EPA 841-B-97-002A and EPA 841-B-97-002B. Washington, DC: U.S. Environmental Protection Agency, Office of Water, September 1997.

U.S. Environmental Protection Agency. *Mercury Report to Congress, Volume I*, Washington, DC: U.S. Environmental Protection Agency, Office of Water, December 1997.

U.S. Environmental Protection Agency. *National Strategy for the Development of Regional Nutrient Criteria*, EPA 822-R-98-002. Washington, DC: U.S. Environmental Protection Agency, Office of Water, June 1998.

U.S. Environmental Protection Agency. *Action Plan for Beaches and Recreational Waters*, EPA 600-R-98-079. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development and Office of Water, March 1999.

U.S. Environmental Protection Agency. *25 Years of the Safe Drinking Water Act: History and Trends*, EPA 816-R-99-007. Washington, DC: U.S. Environmental Protection Agency, Office of Water, December 1999.

U.S. Environmental Protection Agency. *Deposition of Air Pollutants to the Great Waters. Third Report to Congress*, EPA 453-R-00-005.

Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, June 2000.

U.S. Environmental Protection Agency. *Mid-Atlantic Highlands Streams Assessment*, EPA 903-R-00-015. Philadelphia, PA: U.S. Environmental Protection Agency, Office of Research and Development, Region 3, August 2000.

U.S. Environmental Protection Agency. *Ambient Water Quality Criteria for Dissolved Oxygen (Saltwater): Cape Cod to Cape Hatteras*, EPA 822-R-00-012. Washington, DC: U.S. Environmental Protection Agency, Office of Water, October 2000.

U.S. Environmental Protection Agency. *National Listing of Fish and Wildlife Advisories (NLFWA)*. June 2001.

U.S. Environmental Protection Agency, Office of Water. *National Listing of Fish and Wildlife Advisories (NLFWA) Mercury Fish Tissue Database*. June 2001.

U.S. Environmental Protection Agency. *National Coastal Condition Report*, EPA 620-R-01-005. Washington DC: U.S. Environmental Protection Agency, Office of Research and Development and Office of Water, September 2001.

U.S. Environmental Protection Agency. *Mercury Maps: Linking Air Deposition and Fish Contamination on a National Scale*, EPA 823-F-01-026. Washington, DC: U.S. Environmental Protection Agency, Office of Water, November 2001.

U.S. Environmental Protection Agency. *The Incidence and Severity of Sediment Contamination in Surface Waters of the United States, National Sediment Quality Survey: Second Edition*, DRAFT, EPA 823-R-01-01. Washington, DC: U.S. Environmental Protection Agency, Office of Water, December 2001.

U.S. Environmental Protection Agency. *Function and Values of Wetlands Fact Sheet*, EPA 843-F-01-002c. Washington, DC: U.S. Environmental Protection Agency, Office of Water, Office of Wetlands, Oceans, and Watersheds, March 2002.

U.S. Environmental Protection Agency. *2001 National Listing of Fish and Wildlife Advisories*, EPA 823-F-02-010. Washington, DC: U.S. Environmental Protection Agency, Office of Water, May 2002. 2002b

U.S. Environmental Protection Agency. *Update: National Listing of Fish and Wildlife Advisories*, EPA 823-F-02-007. Washington, DC: U.S. Environmental Protection Agency, Office of Water, May 2002. 2002a

U.S. Environmental Protection Agency. *2000 Toxics Release Inventory Public Data Release Report*, EPA 260-S-02-001. Washington, DC: U.S. Environmental Protection Agency, Office of Environmental Information, May 2002.

U.S. Environmental Protection Agency. *EPA's Beach Watch Program: 2001 Swimming Season*, EPA 823-F-02-006. Washington, DC: U.S. Environmental Protection Agency, Office of Water, May 2002.

U.S. Environmental Protection Agency. *Consolidated Assessment and Listing Methodology—Toward a Compendium of Best Practices, First Edition*, Washington, DC: U.S. Environmental Protection Agency, Office of Water, July 2002.

U.S. Environmental Protection Agency. *Response of Surface Water Chemistry to the Clean Air Act Amendments of 1990*, EPA 620-R-03-001. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, January 2003.

U.S. Environmental Protection Agency, Office of Water. National Section 303(d) List Fact Sheet. March 10, 2003. (February 14, 2003; http://oaspub.epa.gov/waters/national_rept.control).

U.S. Environmental Protection Agency. *Mid-Atlantic Integrated Assessment, MAIA - Estuaries 1997- 98, Summary Report*, EPA 620-R-02-003. Narragansett, RI: U.S. Environmental Protection Agency, Office of Research and Development, Atlantic Ecology Division, May 2003.

U.S. Environmental Protection Agency, Office of Water. *Safe Drinking Water Information System/Federal Version (SDWIS/FED)*. 2003.

U.S. Fish and Wildlife Service. *2001 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation, National Overview*, Washington, DC: U.S. Department of the Interior, U.S. Fish and Wildlife Service and U.S. Department of Commerce, October 2002.

U.S. Food and Drug Administration. *1971 National Shellfish Register of Classified Estuarine Waters*, Davisville, RI: Public Health Service, Shellfish Sanitation Branch, Northeast Technical Services Unit, 1971.

U.S. Food and Drug Administration. *National Shellfish Sanitation Program Manual of Operations: Part I, Sanitation of Shellfish Growing Areas, 1993 Revision*, Washington, DC: Center for Food Safety and Applied Nutrition, 1993.

U.S. Geological Survey. *Strategic Directions for the U.S. Geological Survey Ground-Water Resources Program: A Report to Congress*. Reston, VA: U.S. Geological Survey, November 30, 1998.

U.S. Geological Survey. *The Quality of Our Nation's Water*, U.S. Geological Survey Fact Sheet 116-99. Reston, VA: U.S. Geological Survey, 1999.

U.S. Geological Survey. *Report to Congress, Concepts for National Assessment of Water Availability and Use*, U.S. Geological Survey Circular 1223. Reston, VA: U.S. Geological Survey, 2002.

Chapter 3:

Better Protected Land:

Agency of Toxic Substances and Disease Registry. CERCLA priority list of hazardous substances. 2001. (September 2002; <http://www.atsdr.cdc.gov/clist.html>).

Alaska Department of Natural Resources. Fact Sheet: Land Ownership in Alaska. March, 2000. (September 2002; http://www.dnr.state.ak.us/mlw/factsht/land_own.pdf).

Amdur, M.O., J. Doull and C.D. Klassen (Eds.). *Toxicology: the Basic Science of Poisons*. NY: Pergamon Press, 1996, 1033

Battaglin W. A., and D.A. Goolsby. *Spatial Data in Geographic Information System Format on Agricultural Chemical Use, Land Use, and Cropping Practices in the United States*, Water Resources Investigations Report 94-4176. Lakewood, CO: U.S. Geological Survey, 1994.

Beaulac, M.N. and K.H. Reckhow. An examination of land use-nutrient relationships. *Water Resources Bulletin* 18 (6): 1013-1024 (1982).

Blondell, J.M. *Updated Review of Rodenticide Incident Reports Primarily Concerning Children*, Memorandum to Dennis Deziel and Michael McDavit, June 3, 1999.

Brewer, Cynthia A. and Trudy A. Suchan. *Mapping Census 2000: The Geography of U.S. Diversity*. U.S. Census Bureau, Census Special Reports, Series CENSR/01-1. Washington, DC: U.S. Government Printing Office. June 2001.

California Department of Pesticide Regulation. *Pesticide Use Reporting: An Overview of California's Unique Full Reporting System*, Sacramento, California: California Department of Pesticide Regulation, May, 2000. (March 12, 2003; <http://www.cdpr.ca.gov/docs/pur/purovrw/tabofcon.htm>)

Calvert, G.M., Barnett, M., Blondell, J.M., Mehler, L.N. and Sanderson, W.T. "Surveillance of pesticide-related illness and injury in humans." In Krieger, R. (ed.), *Handbook of Pesticide Toxicology*. 2nd edition. San Diego, CA: Academic Press, 1999.

Council on Environmental Quality. The 24th Annual Report of the Council on Environmental Quality, 1993. (May 21, 2003; <http://ceq.eh.doe.gov/nepa/reports/1993/toc.htm>)

Daberkow, S., H. Taylor, and W. Huang. "Agricultural Resources and Environmental Indicators: Nutrient Use and Management." September, 2000. In *Agricultural Resources and Environmental Indicators*, Agricultural Handbook No. AH722. U.S. Department of Agriculture, Economic Research Service, Washington, DC, February 2003, 4.4.1-4.4.49.

Flemming, M.D. *A Statewide Vegetation Map of Alaska Using a Phenological Classification of AVHRR Data*, Anchorage, AK: 1996 Alaska Surveying and Mapping Conference, February 1996.

General Accounting Office. *Superfund: Extent of Nation's Potential Hazardous Waste Problem Still Unknown*, GAO/RCED-88-44. Washington, DC: General Accounting Office, December 1, 1987.

General Services Administration. "Summary report on real property owned by the United States throughout the world." 1999. In *Statistical Abstract of the United States 2001: The National Data Book*, Washington, DC: U.S. Census Bureau, 2001.

Gianessi, L.P., and J.E. Anderson. *Pesticide Use in US Crop Production: National Data Report*, Washington, DC: National Center for Food and Agricultural Policy, February 1995.

Gianessi, L.P., and M.B. Marcelli. *Pesticide Use in U.S. Crop Production: 1997, National Summary Report*, Washington, DC: National Center for Food and Agricultural Policy, November 2000.

Goebel, J.J. "The National Resources Inventory and its role in U.S. agriculture." In *Proceedings of the Conference on Agricultural Statistics Organized by the National Agricultural Statistics Service of the U.S. Department of Agriculture, Under the Auspices of the International Statistical Institute*, 1998.

Goldstein, N. 12th annual Biocycle nationwide survey: the state of garbage in America. *Biocycle Journal of Composting and Organics Recycling* 41 (4): 30-40 (April 2000).

Goss, D.W. Pesticide Runoff Potential, 1990-1995. Pesticide Loss Database. Temple, TX: Texas Agricultural Experiment Station. August 24, 1999. (September 2002; http://www.epa.gov/iwi/1999sept/iv12a_usmap.html).

Hellkamp, A.S., S.R. Shafer, C.L. Campbell, J.M. Bay, D.A. Fiscus, G.R. Hess, B.F. McQuaid, M.J. Munster, G.L. Olson, S.L. Peck, K.N. Easterling, K. Sidik, and M.B. Tooley. Assessment of the condition of agricultural lands in five mid-Atlantic states. *Environmental Monitoring and Assessment* 51: 317-324 (1998).

Klopatek, J.M., R.J. Olson, C.J. Emerson, and J.L. Jones. Land-use conflicts with natural vegetation in the United States. *Environmental Conservation* 6: 191-199 (1979).

Knisel, W.G. (ed.). *GLEAMS: Groundwater Loading Effects of Agricultural Management Systems, Version 2.10*, Publication No. 5. Tifton, GA: Biological and Agricultural Engineering Department, 1993.

Smith, W.B., J.S. Vissage, D.R. Darr, and R.M. Sheffield. *Forest Statistics of the United States, 1997*, General Technical Report NC-219. St. Paul, MN: U.S. Department of Agriculture Forest Service, North Central Research Station, 2001, 191.

The H. John Heinz III Center for Science, Economics and the Environment. *The State of the Nation's Ecosystems: Measuring the Lands, Waters, and Living Resources of the United States*, New York, NY: Cambridge University Press, September 2002.

U.S. Census Bureau. *Statistical Abstract of the United States 2001: The National Data Book*, Washington, DC: U.S. Census Bureau, 2001.

U.S. Census Bureau. Census 2000: redistricting data (PL 94-171) summary file. March 1, 2001. (February 26, 2003; <http://www.census.gov/clo/www/redistricting.html>).

U.S. Census Bureau. Corrected Lists of Urbanized Areas and Urban Clusters. November 25, 2002. (March 2003; http://www.census.gov/geo/www/ua/ua_state_corr.txt and http://www.census.gov/geo/www/ua/uc_state_corr.txt)

U.S. Congress. *Small Business Liability Relief and Brownfields Revitalization Act*, Public Law 107- 118 (H.R. 2869), Washington, DC: January, 2002.

U.S. Department of Agriculture, Natural Resources Conservation Service. *National Resources Inventory*, Washington, DC: Natural Resources Conservation Service and Ames, Iowa: Iowa State University, Statistical Laboratory. 1992.

U.S. Department of Agriculture, Natural Resources Conservation Service. *America's Private Land: A Geography of Hope*, Washington, DC: U.S. Department of Agriculture, June 1997.

U.S. Department of Agriculture, Natural Resources Conservation Service. *Summary Report: 1997 National Resources Inventory (Revised December 2000)*, Washington, DC: Natural Resources Conservation Service and Ames, IA: Iowa State University, Statistical Laboratory, December 1999, revised December 2000. 2000a

U.S. Department of Agriculture, Natural Resources Conservation Service. National Resources Inventory 1997, revised December 2000: Change in Average Annual Soil Erosion by Water on Cropland and CRP Land, 1982-1997. 2000 (January 2003; <http://www.nrcs.usda.gov/technical/land/meta/m5060.html>). 2000f.

U.S. Department of Agriculture, Natural Resources Conservation Service. National Resources Inventory 1997, revised December 2000: Total Wind and Water Erosion, 1997. 2000 (January 2003; <http://www.nrcs.usda.gov/technical/land/meta/m5083.html>). 2000g.

U.S. Department of Agriculture, Natural Resources Conservation Service. National Resources Inventory, 1997, revised December 2000: Percent Change in Cropland Area, 1982-1997. December 2000b. (January 2003; <http://www.nrcs.usda.gov/land/meta/m5874.html>). 2000e

U.S. Department of Agriculture, Natural Resources Conservation Service. National Resources Inventory, 1997, revised December 2000: Acres of Non-Federal Developed Land, 1997. December 2000c. (January 2003; <http://www.nrcs.usda.gov/technical/land/meta/m4974.html>). 2000b

U.S. Department of Agriculture, Natural Resources Conservation Service. National Resources Inventory, 1997, revised December 2000: Acres of Cropland. December 2000d. (January 2003; <http://www.nrcs.usda.gov/technical/land/meta/m4964.html>). 2000d

U.S. Department of Agriculture, Natural Resources Conservation Service. National Resources Inventory, 1997, revised December 2000: Land Development, 1982-1997. December 2000e. (January 2003; <http://www.nrcs.usda.gov/technical/land/meta/m5009.html>). 2000c

U.S. Department of Agriculture, Natural Resources Conservation Service. 1997 National Resources Inventory Highlights. January 2001. (February 2003; <http://www.nrcs.usda.gov/technical/land/pubs/97highlights.pdf>).

U.S. Department of Agriculture, Forest Service. *U.S. Forest Facts and Historical Trends*, Brochure #FS-696. Washington, DC: U.S. Department of Agriculture, April 2001.

U.S. Department of Agriculture, Agricultural Marketing Service. *Pesticide Data Program: Annual Summary Calendar Year 2000*, Washington, DC: U.S. Department of Agriculture, February 2002.

U.S. Department of Agriculture, Forest Service. Draft Resource Planning and Assessment Tables. August 12, 2002. (September 2002; http://www.nrcs.fs.fed.us/4801/FIADB/rpa_table/rpa_table.pdf).

U.S. Department of Commerce, Bureau of Economic Analysis. GDP and Other Major NIPA Series, 1929-2002. 2002. (February 2003; http://www.bea.doc.gov/bea/ARTICLES/2002/08August/0802GDP_&Other_Major_NIPAs..pdf)

U.S. Department of Defense. Fiscal Year 2001 Defense Environmental Restoration Program Annual Report to Congress. 2001. (November 2002; http://63.88.245.60/derparc_fy01/derp/indexTen.htm).

U.S. Department of Energy. *Status Report on Paths to Closure*, DOE EM-0526. U.S. Department of Energy, Office of Environmental Management, March 2000.

U.S. Department of Energy, Office of Environmental Management and Office of Long-Term Stewardship. *A Report to Congress on Long-term Stewardship Volume I - Summary Report*, DOE EM-0563. January 2001.

U.S. Department of Energy, Office of Environmental Management. *Summary Data on the Radioactive Waste, Spent Nuclear Fuel, and Contaminated Media Managed by the U.S. Department of Energy*, April 2001.

U.S. Department of Energy, Energy Information Administration. United States country analysis brief. November 2002. (January 2003; <http://www.eia.doe.gov/emeu/cabs/usa.html>).

U.S. Department of Energy, Office of Environmental Management. Central Internet Database. 2002. (January 2003; <http://cid.em.doe.gov>).

U.S. Department of the Interior. *Rangeland Reform '94, Draft Environmental Impact Statement*, Washington, DC: Bureau of Land Management, 1994.

U.S. Department of the Interior, Bureau of Land Management. Frequently asked questions on the Abandoned Mine Lands Cleanup Program. August 9, 2002. (January, 2003; <http://www.blm.gov/aml/faqs.htm>).

U.S. Environmental Protection Agency. *EPA Report to Congress, Solid Waste Disposal in the United States, Volumes I-II*, EPA 530-SW-88-011 (B). Washington, DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, October 1988.

U.S. Environmental Protection Agency, Office of Research and Development. Multi-Resolution Land Characteristics Consortium - National Land Cover Data. 1992. (February 19, 2003; <http://www.epa.gov/mrlc/nlcd.html>)

U.S. Environmental Protection Agency. *National Water Quality 1994 Inventory Report to Congress: Ground Water and Drinking Water Chapters*, EPA 813-R-96-001. Washington, DC: U.S. Environmental Protection Agency, Office of Water, June 1996.

U.S. Environmental Protection Agency. *National Water Quality Inventory: 1996 Report to Congress (305(b))*, EPA 841-R-97-008. Washington DC: U.S. Environmental Protection Agency, Office of Water, December 1997.

U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. Number of NPL Site Actions and Milestones by Fiscal Year. March 26, 2003 (April 3, 2003; <http://www.epa.gov/superfund/sites/query/queryhtm/nplfy/htm>)

U.S. Environmental Protection Agency, Office of Wetlands, Oceans, and Watersheds. Pesticide Runoff Potential - 1990-1995. August 24, 1999. (September 2002; http://www.epa.gov/iwi/1999sept/iv12a_usamap.html)

U.S. Environmental Protection Agency, Office of Water. Sediment runoff potential-1990-1995. August 24, 1999. (September, 2002; http://www.epa.gov/iwi/1999sept/iv12c_usmap.html)

U.S. Environmental Protection Agency. Persistent bioaccumulative toxic (PBT) chemicals; final rule. 40 CFR Part 372: *Federal Register* 64 (209), October 29, 1999.

U.S. Environmental Protection Agency. *RCRA Orientation Manual*, EPA 530-R-0-006. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, June 2000.

U.S. Environmental Protection Agency. *National Water Quality 1998 Inventory Report to Congress: Ground Water and Drinking Water Chapters*, EPA 816-R-00-013. Washington, DC: U.S. Environmental Protection Agency, Office of Water, August 2000.

U.S. Environmental Protection Agency. *Industrial Surface Impoundments in the United States*, EPA 530-R-01-005. Washington, DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, March 2001.

U.S. Environmental Protection Agency. *The National Biennial RCRA Hazardous Waste Report*, EPA 530-R-01-009. Washington DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, June 2001.

U.S. Environmental Protection Agency. *Pesticide Industry Sales and Usage 1998 and 1999 Market Estimates*, Washington, DC: U.S. Environmental Protection Agency, Office of Prevention, Pesticides, and Toxic Substances, August 2002.

U.S. Environmental Protection Agency, Office of Pesticide Programs. Biopesticides registration action document: *Bacillus thuringiensis* plant-incorporated protectants. October 16, 2001. (January 2003; http://www.epa.gov/pesticides/biopesticides/pips/bt_brad.htm).

U.S. Environmental Protection Agency. *Municipal Solid Waste in the United States: 2000 Facts and Figures*, EPA 530-S-02-001. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, June 2002.

U.S. Environmental Protection Agency. *Current Drinking Water Standards*, EPA 816-F-02-013. Washington, DC: U.S. Environmental Protection Agency, Office of Water, July 2002.

U.S. Environmental Protection Agency. *National Water Quality Inventory - 2000 Report*, EPA 841-R-02-001. Washington DC: U.S. Environmental Protection Agency, Office of Water, August 2002.

U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. Household hazardous waste. No date available. (August 2002; www.epa.gov/epaoswer/non-hw/muncpl/hhw.htm)

U.S. Environmental Protection Agency. *Waste Minimization Trends Report (1991-1998)*, EPA 530-R-02-007. Washington, DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, September 2002.

U.S. Environmental Protection Agency, Superfund Emergency Response Program. Sources of Common Contaminants and Their Health Effects. September 20, 2002. (February 25, 2003; <http://www.epa.gov/superfund/programs/er/hazsubs/sources.htm>).

U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. Corrective action background. October 8, 2002. (October 15, 2002; <http://www.epa.gov/epaoswer/hazwaste/ca/backgnd.htm#5>).

U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. Brownfields assessment demonstration pilots. October 17, 2002. (January 2003; <http://www.epa.gov/brownfields/jlocat.htm>).

U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. End-of-year activity report memorandum to UST regional division directors. December 23, 2002. (February 25, 2003; <http://www.epa.gov/swerust1/cat/eoy02memo.pdf>).

U.S. Environmental Protection Agency, Superfund Emergency Response Program. National Priorities List Site Totals by Status and Milestone. February 6, 2003. (February 25, 2003; <http://epa.gov/superfund/sites/query/queryhtm/npltotal.htm>). –

U.S. Fish and Wildlife Service. Invasive species encroachment is one of the biggest threats to native ecosystems that resource managers face today. No date available. (August 2002; <http://invasives.fws.gov/Index7.html>).

U.S. Geological Survey. Kramer, D.A., J.F. Papp, N.M. LaTurno, J. Gambogi. Mine and Mineral Processing Plant Locations: Supplemental Information for USGS Map 1-2654. 2000a. (May 9, 2003; <http://minerals.usgs.gov/minerals/pubs/mapdata/>) 2000a

U.S. Geological Survey. Ewell, M.E. Mining and Quarrying Trends 2000. 2000b. (February 25, 2003; <http://minerals.usgs.gov/minerals/pubs/commodity/m&q/873400.pdf>) 2000b

U.S. Geological Survey, National Land Cover Dataset. NLCD Land Cover Statistics. 2001. (March 2003; <http://landcover.usgs.gov/nlcd.html>).

Vesterby, M., "Agricultural resources and environmental indicators: land use." In *Agricultural Resources and Environmental Indicators Report*, Ag Handbook No. AH722. Washington, DC: U.S. Department of Agriculture, Economic Research Service, February 2003, 1-33.

Walker, C. Sediment Runoff Potential, 1990-1995. Hydrologic Unit Modeling of the United States (HUMUS) Project. Temple, TX: Texas Agricultural Experiment Station. August 24, 1999. (September, 2002; http://www.epa.gov/iwi/1999sept/iv12c_usmap.html).

Westbrooks, R. *Invasive Plants, Changing the Landscape of America: Fact Book*, Washington, DC: Federal Interagency Committee for the Management of Noxious and Exotic Weeds, 1998.

Wickham, J.D., K.H. Riitters, R.V. O'Neill, K.H. Reckhow, T.G. Wade, and K.B. Jones. Land cover as a framework for assessing risk of water pollution. *Journal of the American Water Resources Association* 36 (6): 1-6 (2000).

Wilderness Information Network. National wilderness preservation system database. August 2002. (February 10, 2003; <http://www.wilderness.net/nwps>).

World Resources Institute. *World Resources 2000-2001 People and Ecosystems: the Fraying Web of Life*, Washington, DC: World Resources Institute, 2000.

Chapter 4:

Human Health

Adams, P., G.E. Hendershot, and M. Marano. Current estimates from the National Health Interview Survey. 1996. *Vital and Health Statistics* 10: 82, 92, 94 (1999).

Agency for Toxic Substances and Disease Registry. Public health statement for chromium. 2000. (February 27, 2003; <http://www.atsdr.cdc.gov/interactionsprofiles/ps7.html>).

Agency for Toxic Substances and Disease Registry, Centers for Disease Control. ToxFAQ's: chromium. 2001. (April 21, 2003; <http://www.atsdr.cdc.gov/tfacts7.html>).

Akinbami, L.J. and K.C. Schoendorf. Trends in Childhood Asthma: Prevalence, Health Care Utilization and Mortality. *Pediatrics* 110: 315-332 (2002).

American Conference of Governmental Industrial Hygienists. *Documentation of the Threshold Limit Values and Biological Exposure Indices, 6th Edition*, Cincinnati, OH: ACGIH. 1991.

American Heart Association. *2001 Heart and Stroke Statistical Update*, Dallas, TX: American Heart Association, 2001, 5-9, 13-16.

American Lung Association. Breathless in America: background on COPD. 2001. (April 5, 2002; http://www.lungusa.org/press/lung_dis/asn_copdback.html).

American Lung Association, U.S. Environmental Protection Agency, Consumer Product Safety Commission, and The American Medical Association. *Indoor Air Pollution: An Introduction for Health Professionals*, Publication No. 1994-523-217/81. Washington, DC: U.S. Government Printing Office, 1994.

Anderson, R.N. Deaths: Leading causes for 1999. *National Vital Statistics Report* 49 (11): 8 (2001).

California Department of Developmental Services. Changes in the population of persons with autism and pervasive developmental disorders in California's developmental services system: 1987 through 1988: a report to the legislature. 1999. (April 13, 2002; http://www.cahwnet.gov/autism/pdf/autism_report_1999.pdf).

Caraballo, R.S., G.A. Giovino, T.F. Pechacek, P.D. Mowery, P.A. Richter, W.J. Strauss, et al. Racial and ethnic differences in serum cotinine levels of cigarette smokers: third national health and nutrition

examination survey. 1988-1991. *Journal of the American Medical Association* 280: 135-139 (1998).

Centers for Disease Control and Prevention. Preventing lead poisoning in young children. 1991. (April 12, 2002; <http://aepo-xdv-www.epo.cdc.gov/wonder/prevguid/p0000029/p0000029.asp>).

Centers for Disease Control and Prevention. Current trends in autopsy frequency—United States, 1980- 1985. *Morbidity and Mortality Weekly Report* 37 (12): 191-194 (1998). 1998a.

Centers for Disease Control and Prevention. Gastrointestinal infections. 1998. (March 27, 2002; http://www.cdc.gov/ncidod/hip/INFECT/gi_excerpt.htm). 1998b.

Centers for Disease Control and Prevention. Notice to readers: final 1997 reports of notifiable diseases. *Morbidity and Mortality Weekly Report* 47 (34): 717-718 (1998). 1998c.

Centers for Disease Control and Prevention. *Decline in Deaths from Heart Disease and Stroke, United States, 1990-1999*, Washington, DC: Centers for Disease Control, 1999. 1999a.

Centers for Disease Control and Prevention. Notice to readers: final 1998 reports of notifiable diseases. *Morbidity and Mortality Weekly Report* 48 (36): 804-805, 815-822 (1999). 1999b.

Centers for Disease Control and Prevention. *Chronic diseases and their risk factors: the nation's leading causes of death (1999)*, Atlanta, GA: NCCDHP, 2000. 2000a.

Centers for Disease Control and Prevention. Consequences of delayed diagnosis of Rocky Mountain spotted fever in children—West Virginia, Michigan, Tennessee, and Oklahoma, May-July 2000. *Morbidity and Mortality Weekly Report* 49 (39): 885-888 (2000). 2000b.

Centers for Disease Control and Prevention. Notice to readers: final 1999 reports of notifiable diseases. *Morbidity and Mortality Weekly Report* 49 (37): 841 (2000). 2000c.

Centers for Disease Control and Prevention. Update: West Nile virus activity—Eastern United States, 2000. *Morbidity and Mortality Weekly Report* 49 (46): 1044-1047 (2000). 2000d.

Centers for Disease Control and Prevention. Cholera. 2001. (November 19, 2002; http://www.cdc.gov/ncidod/dbmd/diseaseinfo/cholera_g.htm). 2001 a.

Centers for Disease Control and Prevention. Escherichia coli O157:H7. 2001. (November 19, 2002; http://www.cdc.gov/ncidod/dbmd/diseaseinfo/escherichiacoli_g.htm). 2001 b.

Centers for Disease Control and Prevention. National Report on Human Exposure to Environmental Chemicals. 2001. (May 21, 2002; <http://www.cdc.gov/nceh/dls/report/PDF/CompleteReport.pdf>). 2001 c.

Centers for Disease Control and Prevention. Notice to readers: final 2000 reports of notifiable diseases. *Morbidity and Mortality Weekly Report* 50 (33): 712 (2001). 2001 d.

Centers for Disease Control and Prevention. Prevalence of disabilities and associated health conditions among adults—United States, 1999. *Morbidity and Mortality Weekly Report* 50: 120-125 (2001). 2001 e.

Centers for Disease Control and Prevention. Salmonellosis. 2001. (November 19, 2002; http://www.cdc.gov/ncidod/dbmd/diseaseinfo/salmonellosis_g.htm). 2001 f.

Centers for Disease Control and Prevention. Shigellosis. 2001. (November 19, 2002; http://www.cdc.gov/ncidod/dbmd/diseaseinfo/shigellosis_g.htm). 2001 g.

Centers for Disease Control and Prevention. Typhoid fever. 2001. (November 19, 2002; http://www.cdc.gov/ncidod/dbmd/diseaseinfo/typhoidfever_g.htm). 2001 h.

Centers for Disease Control and Prevention. National diabetes fact sheet. 2002. (February 26 2002; <http://www.cdc.gov/diabetes/pubs/estimates.htm>). 2002 a.

Centers for Disease Control and Prevention. Notice to readers: final 2001 reports of notifiable diseases. *Morbidity and Mortality Weekly Report* 51 (32): 710 (2002). 2002 b.

Centers for Disease Control and Prevention. Rocky Mountain spotted fever: epidemiology. 2002 (June 6, 2002; <http://www.cdc.gov/ncidod/dvrd/rmsf/epidemiology.htm>). 2002 c.

Centers for Disease Control and Prevention. Viral hepatitis. 2002. (November 19, 2002; <http://www.cdc.gov/ncidod/diseases/hepatitis/index.htm>). 2002 d.

Centers for Disease Control and Prevention. Viral hepatitis surveillance: disease burden from hepatitis A, B, and C in the United States. 2002. (November 19, 2002; http://www.cdc.gov/ncidod/diseases/hepatitis/resource/dz_burden02.htm) 2002 e.

Centers for Disease Control and Prevention. West Nile virus update: current case count, 2002. 2002. (November 14, 2002; <http://www.cdc.gov/od/oc/media/wncount.htm>). 2002 f.

Centers for Disease Control and Prevention. Asthma's impact on children and adolescents. 2002. (March 25, 2002; <http://www.cdc.gov/nceh/airpollution/asthma/children.htm>). 2002 g.

Centers for Disease Control and Prevention. *Second National Report on Human Exposure to Environmental Chemicals*, NCEH Publication No. 03-0022. Atlanta, GA: Centers for Disease Control and Prevention, January 2003. 2003 a.

Centers for Disease Control and Prevention. Asthma prevalence, health care use and mortality, 2000- 2001. 2003. (April 21, 2003; <http://www.cdc.gov/nchs/products/pubs/pubd/hestats/asthma/asthma.htm>). 2003 b.

Centers for Disease Control and Prevention. Birth defects. Undated. (April 21, 2003; <http://www.cdc.gov/ncbddd/bd>). 2003 c.

Centers for Disease Control. Radiation facts. (May 17, 2003; <http://www.bt.cdc.gov/radiation/facts.asp>). 2003 d.

Checkoway, H. and Nelson, L. Epidemiologic approaches to the study of Parkinson's disease etiology. *Epidemiology* 10: 327-336 (1999).

Churchill, J., and W. Kaye. Recent chemical exposures and blood volatile organic compound levels in a large population-based sample. *Archives of Environmental Health* 56 (2): 157-166 (2001).

Clayton, C.A., E.D. Pellizzari, R.W. Whitmore, R.L. Perritt, and J.J. Quackenboss. National Human Exposure Assessment Survey (NHXAS): distributions and associations of lead, arsenic and volatile organic compounds in EPA region 5. *Journal of Exposure Analysis and Environmental Epidemiology* 9: 381-392 (1999).

Craun, G.F. "Chapter 5: Statistics of Waterborne Outbreaks in the U.S. (1920-1980)" In G.F. Craun, (ed.) *Waterborne Diseases in the United States*, Boca Raton: FL, CRC Press, Inc., 1986, 74-155.

Craun, G.F. and R.L. Calderon. "Waterborne Outbreaks in the United States, 1971-2000." In Frederick W. Pontius (ed.), *Drinking Water Regulation and Health*, New York, NY: John Wiley & Sons, 2003, 40- 56.

Crinnion, W.J. Environmental medicine, part one: the human burden of environmental toxins and their common health effects. *Alternative Medicine Review* 5 (1): 52-63 (2000).

Dockery D.W. and Pope, C.A. "Outdoor Air I: Particulates." In K. Steenland and D.A. Savitz (eds.), *Topics in Environmental Epidemiology*, New York, NY: Oxford University Press, 1997.

Doll, R., and R. Peto. *The Causes of Cancer: Quantitative Estimates of Avoidable Risks of Cancer in the United States Today*, New York: Oxford University Press, 1981.

Eberhardt, M.S., D.D. Ingram, D.M. Makuc, et al. *Health, United States, 2001: With Urban and Rural Health Chartbook*, Hyattsville, MD: National Center for Health Statistics, 2001, 161-163.

Eiseman, E., and S. Haga. *A National Resource of Human Tissue Samples*, ISBN 0-8330-2766-2. Arlington, VA: RAND, 1999.

Fombonne, E. Is there an epidemic of autism? *Pediatrics* 107: 411-412 (2001).

Fox, K. National Risk Management Research Laboratory, personal communication, 2003.

Franzen, C., and A. Muller. Cryptosporidia and microsporidia—waterborne diseases in the immunocompromised host. *Diagnostic Microbiology and Infectious Disease* 34: 245-262 (1999).

Friis, R.H. and T.A. Sellers, *Epidemiology for Public Health Practice, Second Edition*. Gaithersburg, MD: Aspen Publishers, Inc., 1999.

Gayle, A. and E. Ringdahl. Tick-borne diseases. *American Family Physician* 64: 461-466 (2001).

GLOBOCAN 2000. *Cancer Incidence, Mortality and Prevalence Worldwide, Version 1.0.*, IARC CancerBase No. 5. [Computer software.] Lyon: IARC Press, 2001.

Guerrant, R.L. Cryptosporidiosis: an emerging, highly infectious threat. *Emerging Infectious Diseases* 3 (1): 51-57 (1997).

Hanzlick, R. National autopsy data dropped from the National Center for Health Statistics Database. *Journal of the American Medical Association* 280 (10): 886 (1998).

Holman, R.C., C.D. Paddock, A.T. Curns, J.W. Krebs, J.H. McQuiston, and J.E. Childs. Analysis of risk factors for fatal Rocky Mountain Spotted Fever: evidence for superiority of tetracyclines for therapy. *Journal of Infectious Diseases* 184: 1437-1444 (2001).

Horga, M. A. and A. Fine. West Nile virus. *Pediatric Infectious Diseases Journal* 20: 801-802 (2001).

Hoyert, D.L. and H.M. Rosenberg. Mortality from Alzheimer's disease: an update. *National Vital Statistics Report* 47: 5 (1999).

Hoyert, D.L., E. Arias, B.L. Smith, S.L. Murphy, and K.D. Kochanek. Deaths: Final Data for 1999. *National Vital Statistics Report* 49: 6-9 (2001).

International Center for Tropical Disease Research Network. 10th Anniversary: tropical diseases. 2002. (November 19, 2002; <http://www.niaid.nih.gov/dmid/pdf/factsheet.pdf>).

International Programme on Chemical Safety. *Global Assessment of the State-of-the-Science of Endocrine Disruptors*, WHO/PCS/EDC/02.2. Geneva: World Health Organization, International Programme on Chemical Safety, 2002.

Iversen, P. Autism: what does the future hold for, what can we learn from the past, and what can we do right now? *California Pediatrician* Fall: 1-3 (2000).

Kay, D., A. Pruss, and C. Corvalan. Methodology for assessment of environmental burden of disease; report on the ISEE session on environmental burden of disease, Buffalo, August 22, 2000. (May 19, 2002; <http://www.who.int/peh/burden/methodologyhtm.htm>).

Kramarow, E., H. Lentzner, R. Rooks, J. Weeks, S. Saydah. *Health, United States, 1999: With Health and Aging Chartbook*, Hyattsville, MD: National Center for Health Statistics, 1999.

MacIntosh, D.L., L.L. Needham, K.A. Hammerstrom, and P.B. Ryan. A longitudinal investigation of selected pesticide metabolites in urine. *Journal of Exposure Analysis and Environmental Epidemiology* 9: 494-501 (1999).

Mannino, A.M., and B.L. Smith. Deaths: preliminary data for 2000. *National Vital Statistics Report* 53 (49): 3 (2001).

Mannino, D.M., D.M. Huma, L.J. Akinbami, et al. Surveillance for asthma - United States, 1980-1999. *Morbidity and Mortality Weekly Report Surveillance Summaries* 51 (SS-1): 8, 9, 13 (2002).

Martin, J.A., B.E. Hamilton, S.J. Ventura, F. Menacker, and M.M. Park. Births: Final data for 2000. *National Vital Statistics Report* 50 (5): 16, 79 (2002).

Moore, G.W., J.J. Berman, R.L. Hanzlick, J.J. Buchino, and G.M. Hutchins. A prototype internet autopsy database: 1625 consecutive fetal and neonatal autopsy facesheets spanning twenty years. 1996. (March 1, 2002; <http://www.autopsymb.org/protoiad.htm>).

Nadakavukaren, A. *Our Global Environment: a Health Perspective, Fifth Edition*, Prospect Heights, IL: Waveland Press, Inc, 2000.

National Academy of Engineering. Greatest engineering achievements of the 20th century. 2000. (February 28, 2003; <http://greatestachievements.org>).

National Research Council. *Risk Assessment in the Federal Government: Managing the Process*, Washington, DC: National Academies Press, 1983.

National Research Council. *Measuring Lead Exposure in Infants, Children, and Other Sensitive Populations*, Washington DC: National Academies Press, 1993.

National Research Council. *Arsenic in Drinking Water*. Washington, DC: National Academies Press, 1999.

National Research Council. *Toxicological Effects of Methylmercury*. Washington, DC: National Academy of Sciences, 2000.

National Cancer Institute. Health disparities. 2002. (January 30, 2003; <http://surveillance.cancer.gov/disparities>).

National Cancer Institute. Dictionary. Undated. (April 18, 2003; <http://cancer.gov/dictionary>).

National Center for Educational Statistics. Digest of education statistics. 2001. (February, 18, 2003; <http://nces.ed.gov/pubs2002/digest2001/tables/dt052.asp>).

National Center for Environmental Health. CDC's lead poisoning prevention program. 1998. (April 12, 2002; <http://www.cdc.gov/nceh/Lead/factsheets/leadfacts.pdf>).

National Center for Health Statistics. *Healthy People 2000 Final Review*, PHS 2001-0256 ed. Hyattsville, MD: Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, 2001.

National Heart, Lung and Blood Institute. Particulate air pollution and cardiovascular morbidity. 2000. (April 3, 2002; <http://www.arb.ca.gov/research/cardio/cardio.htm>).

National Institute of Diabetes and Digestive and Kidney Diseases. Kidney and urologic diseases statistics for the United States. 2001. (April 5, 2002; <http://www.niddk.nih.gov/health/kidney/pubs/kustats/kustats.htm>).

National Institute of Neurological Disorders and Stroke. Parkinson's disease backgrounder. 2002. (May 13, 2002; http://www.ninds.nih.gov/health_and_medical/pubs/parkinson's_disease_backgrounder.htm).

Orban, J.E., J.S. Stanley, J.G. Schwemberger, and J.C. Remmers. Dioxins and dibenzofurans in adipose tissue of the general U.S. population and selected subpopulations. *American Journal of Public Health* 84: 439-445 (1994).

Orloski, K.A., E.B. Hayes, G.L. Campbell, and D.T. Dennis. Surveillance for Lyme disease-United States, 1992-1998. *Morbidity and Mortality Weekly Report Surveillance Summaries* 49 (SS-1): 4 (2002).

Paddock, C. D., P.W. Greer, T.L. Ferebee, J. Jr. Singleton, D.B. McKechnie, T.A. Treadwell, et al. Hidden mortality attributable to Rocky Mountain spotted fever: immunohistochemical detection of fatal, serologically unconfirmed disease. *Journal of Infectious Diseases* 179: 1469-1476 (1999).

Pastor, P.N., D.M. Makuc, C. Reuben, and H. Xia, et al. *Chartbook on Trends in the Health of Americans. Health, United States, 2002*, Hyattsville, MD: National Center for Health Statistics, 2002.

Pellizzari, E.D., R. Fernando, G.M. Cramer, G.M. Meaburn, and K. Bangerter. Analysis of mercury in hair of EPA region V population. *Journal of Exposure Analysis and Environmental Epidemiology* 9: 393-401 (1999).

Peterson, C.A. and R.L. Calderon. Trends in enteric disease as a cause of death in the United States, 1989-1996. *American Journal of Epidemiology* 157: 58-65 (2003).

Pirkle, J.L., K.M. Flegal, J.T. Bernert, D.J. Brody, R.A. Etzel, and K.R. Maurer. Exposure of the U.S. population to environmental tobacco smoke: The Third National Health and Nutrition Examination Survey, 1988 to 1991. *Journal of the American Medical Association* 275: 1233-1240 (1996).

Pirkle, J.L., R.B. Kaufmann, D.J. Brody, T. Hickman, E.W. Gunter, and D.C. Pashal. Exposure of the U.S. population to lead: 1991-1994. *Environmental Health Perspectives* 106: 745-50 (1998).

Prüss, A., C.F. Corvalan, H. Pastides, and A.E. De Hollander. Methodologic considerations in estimating burden of disease from environmental risk factors at national and global levels. *International Journal of Occupational Medicine and Environmental Health* 7: 58-67 (2001).

Rappole, J. H., S.R. Derrickson, and Z. Hubalek. Migratory birds and spread of West Nile virus in the Western Hemisphere. *Emerging Infectious Diseases* 6: 319-328 (2000).

Ries, L.A.G., M.P. Eisner, C.L. Kosary, et al., eds. *SEER Cancer Statistics Review, 1973-1998*. Bethesda, MD: National Cancer Institute, 2001.

Rom, W.N. *Environmental and Occupational Medicine, 2nd Edition*, Boston, MA: Little, Brown and Company, 1992.

Schmidt, C. W. Poisoning young minds. *Environmental Health Perspectives* 107: A302-A307 (1999).

Shapiro, E. D. and M.A. Gerber. Lyme disease. *Clinical Infectious Diseases* 31: 533-542 (2000).

Smith, K.R., Corvalan, C.F., and Kfellerstrom, T. How much global ill health is attributable to environmental factors? *Epidemiology* 10: 573-584 (1999).

The Pew Environmental Health Commission, The Johns Hopkins University School of Public Health. Transition report to the new administration: Strengthening our public health defense against environmental threats. 2001. (May 27, 2002; <http://pewenvirohealth.jhsph.edu/html/reports/5 Pager.pdf>).

United Nations. *Demographic Yearbook 1999*, New York: United Nations, 2001, 479-506.

U.S. Department of Housing and Urban Development. Eliminating childhood lead poisoning: a federal strategy targeting lead paint hazards. 2000. (February 20, 2003; <http://www.hud.gov/offices/lead/reports/fedstrategy2000.pdf>).

U.S. Environmental Protection Agency. Regulation of fuels and fuel additives: control of lead additives in gasoline. *Federal Register* 38 (234): 33733-33741 (December, 6 1973).

U.S. Environmental Protection Agency. *Air Quality Criteria for Lead*. EPA 600-8-83-028aF. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, Environmental Criteria and Assessment Office, 1986.

U.S. Environmental Protection Agency. *Respiratory Health Effects of Passive Smoking: Lung Cancer and Other Disorders*, EPA 600-6-90-006F. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development, Office of Health and Environmental Assessment, December 1992.

U.S. Environmental Protection Agency. EPA's report on environmental health threats to children. 1996. (May 23, 2002; <http://www.epa.gov/epadocs/child.htm>).

U.S. Environmental Protection Agency. *Research Plan for Microbial Pathogens and Disinfection Byproducts in Drinking Water*, EPA 600-R-97-122. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development, November 1997.

U.S. Environmental Protection Agency. *EPA's Children's Environmental Health Yearbook*, Washington, DC: U.S. Environmental Protection Agency, Office of Children's Health Protection, June 1998.

U.S. Environmental Protection Agency. February 10-12, 1999, M/DBP (microbial/disinfection byproducts) stage 2 FACA: health effects workshop meeting summary. 1999. (November 21, 2002; <http://www.epa.gov/safewater/mdbp/st2feb99.html>).

U.S. Environmental Protection Agency. Radiation: risks & realities - what is radiation? 2000. (June 2, 2002; <http://www.epa.gov/radiation/docs/risksandrealities/rpage2.html>). 2000a.

U.S. Environmental Protection Agency. *Air Quality Criteria for Carbon Monoxide*, EPA 600-P-99-001F. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office Research and Development, National Center for Environmental Assessment. June 2000. 2000b.

U.S. Environmental Protection Agency, *America's Children and the Environment - a First View of Available Measures*, EPA 240-R-00-006.

Washington, DC: Environmental Protection Agency, Office of Children's Health Protection, December 2000. 2000c.

U.S. Environmental Protection Agency. *Handbook of Groundwater Policies for RCRA Corrective Action* (updated 4/20/2000), EPA 530-D-00-001. Washington, DC: U.S. Environmental Protection Agency, April 2000d.

U.S. Environmental Protection Agency. Fact sheet: drinking water standard for arsenic, EPA 815-F-00-015. 2001. (November 24, 2002; http://www.epa.gov/safewater/ars/ars_rule_factsheet.html). 2001a.

U.S. Environmental Protection Agency. Pesticides: regulating pesticides—Persistent organic pollutants (POPs). 2001. (May 21, 2002; <http://www.epa.gov/oppead1/international/pops.htm>). 2001b.

U.S. Environmental Protection Agency. *Drinking Water Priority Rulemaking: Microbial and Disinfection Byproduct Rules*, EPA 816-F-01-012. Washington, DC: U.S. Environmental Protection Agency, Office of Water, June 2001a.

U.S. Environmental Protection Agency. *National Air Quality and Emissions Trends Report, 1999*, EPA 454-R-01-004. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, March 2001.

U.S. Environmental Protection Agency. Ionizing radiation. 2002. (February 18, 2003; <http://www.epa.gov/earth1r6/6pd/radon/radon.htm>). 2002a.

U.S. Environmental Protection Agency, Region 6. Radon. 2002. (June 6, 2002; <http://www.epa.gov/earth1r6/6pd/radon/radon.htm>). 2002b.

U.S. Environmental Protection Agency. Drinking water contaminants: disinfection by-products. 2002. (November 21, 2002; <http://www.epa.gov/safewater/hfacts.html>). 2002c.

U.S. Environmental Protection Agency. *Air Quality Criteria for Particulate Matter, Third External Review Draft, Volume II*, EPA 600-P-99-002bC. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, National Center for Environmental Assessment, April 2002. 2002d.

U.S. Environmental Protection Agency. *Current Drinking Water Standards*, EPA 816-F-02-013. Washington, DC: U.S. Environmental Protection Agency, July 2002. 2002e.

U.S. Environmental Protection Agency. *National Recommended Water Quality Criteria: 2002*, EPA 822-R-02-047. Washington, DC: U.S. Environmental Protection Agency, November 2002f.

U.S. Environmental Protection Agency. Consumer factsheet on hexachlorobenzene. 2002. (May 8, 2003; <http://www.epa.gov/safewater/dwh/c-soc/hexachlo.html>). 2002g.

U.S. Environmental Protection Agency. Radiation information: common questions, clear answers. (May 17, 2003; <http://www.epa.gov/radiation/faqs.htm>). 2002h.

U.S. Environmental Protection Agency. Understanding radiation: ionizing and non-ionizing radiation. (May 17, 2003; http://www.epa.gov/radiation/understand/ionize_nonionize.htm). 2002i.

U.S. Environmental Protection Agency. Understanding radiation: health effects. (May 17, 2003; http://www.epa.gov/radiation/understand/health_effects.htm). 2002j.

U.S. Environmental Protection Agency. Understanding radiation: exposure pathways. (May 17, 2003; <http://www.epa.gov/radiation/understand/pathways.htm>). 2002k.

U.S. Environmental Protection Agency. *America's Children and the Environment – Measures of Contaminants, Body Burdens, and Illnesses, Second Edition*, EPA 240-R-03-001. Washington, DC: Environmental Protection Agency, Office of Children's Health Protection, National Center for Environmental Economics, Office of Policy, Economics and Innovation, February 2003. 2003a.

U.S. Environmental Protection Agency. Hexachlorobenzene. 2003. (May 8, 2003; <http://www.epa.gov/ttn/atw/hlthef/hexa-ben.html>). 2003b.

U.S. Environmental Protection Agency. Hexachlorobenzene. 2003. (May 8, 2003; <http://www.epa.gov/opptintr/pbt/hexa.htm>). 2003c.

U.S. Environmental Protection Agency. EPA map of radon zones. 2003. (February 27, 2003; <http://www.epa.gov/iaq/radon/zonemap.html>). 2003d.

U.S. Environmental Protection Agency. *Framework for Cumulative Risk Assessment*, EPA-630-P-02-001 F. Washington, DC: Risk Assessment Forum, 2003. (Available online at <http://cfpub.epa.gov/ncea/raf/recordisplay.cfm?deid=54944>) 2003e.

Walker, D. H. Tick-transmitted infectious diseases in the United States. *Annual Review of Public Health* 19: 237-269 (1998).

Whipple G.C. *Influence of Public Water-Supplies on the Typhoid Fever Death-Rates of Cities. In Typhoid Fever - Its Causation, Transmission and Prevention*, John Wiley and Sons, Inc., 1908, 228-270.

World Health Organization. Typhoid fever, 1997. Fact sheet N149. (February 1, 2003; <http://www.who.int/inf-fs/en/fact149.html>)

World Health Organization. Environmental burden of disease. 2002. (April 11, 2002; <http://www.who.int/peh/burden/burdenindex.htm>).

World Resources Institute, United Nations Environment Programme, United Nations Development Programme, and World Bank. *World Resources* 1998-99, London: Oxford University Press, 1998, 10.

Yazbak, F.E. Autism 99: a national emergency. 1999. (April 13, 2002; http://www.garynull.com/Documents/autism_99.htm).

Chapter 5:

Ecological Condition

American Forests. *Urban Ecosystem Analysis - Atlanta Metro Area: Calculating the Value of Nature*, Washington, DC: American Forests, 2001.

American Forests. *Urban Ecosystem Analysis for the Washington DC Metropolitan Area: An Assessment of Existing Conditions and a Resource for Local Action*, Washington, DC: American Forests, 2002.

Anderson, D., and D. Garrison (eds.). The ecology and oceanography of harmful algal blooms. *Limnology and Oceanography* 42: 1009-130 (2000).

Arnold, D.L., and C.J. Gibbons. Impervious surface coverage: The emergence of a key environmental indicator. *Journal of the American Planning Association* 62 (2): 243-258 (1996).

Baker, L.A., A. Herlihy, P. Kaufmann, and J. Eilers. Acid lakes and streams in the United States: the role of acid deposition. *Science* 252: 1151-1154 (1991).

Barker, J., and D. Tingey. *Air Pollution Effects on Biodiversity*, New York: Van Nostrand Reinhold, 1992.

Batiuk, R.A., P. Bergstrom, M. Kemp, E. Koch, L. Murray, J.C. Stevenson, R. Bartleson, V. Carter, N.B. Rybicki, J.M. Landwehr, C. Gallegos, L. Karrh, M. Naylor, D. Wilcox, K.A. Moore, S. Ailstock, and M. Teichberg. *Chesapeake Bay Submerged Aquatic Vegetation Water Quality and Habitat- Based Requirements and Restoration Targets: A Second Technical Synthesis*, CBP-TRS 245-00, EPA 903-R-00-014. Annapolis, MD: U.S. Environmental Protection Agency, Chesapeake Bay Program, 2000.

Bennett, J.P., R.L. Anderson, M.L. Mielke, and J.J. Ebersole. Foliar injury air pollution surveys of eastern white pine (*Pinus strobus* L.): a reviewTM. *Environmental Monitoring and Assessment* 30: 247-274 (1994).

Boesch, D.F., and Rosenberg, R. "Response to stress in marine benthic communities." In G.W. Barret and R. Rosenberg (eds.), *Stress Effects on Natural Ecosystems*, New York, NY: John Wiley and Sons, 1981, 179-200.

Bondy, E., L. Lyles, and W.A. Hayes. Computing soil erosion by periods using wind energy distribution. *Journal of Soil and Water Conservation* 35 (4): 173-176 (1980).

Booth, D.B., and C.R. Jackson. Urbanization of aquatic systems: Degradation thresholds, stormwater detection, and the limits of

mitigation. *Journal of the American Water Resources Association* 35 (5): 1077-1090 (1997).

Carlson, R.E. A trophic state index for lakes. *Limnology and Oceanography* 22 (2): 361-369 (1977).

Committee on Environment and Natural Resources of the National Science and Technology Council. *Integrated Assessment of Hypoxia in the Northern Gulf of Mexico*, Washington, DC: National Science and Technology Council Committee on Environment and Natural Resources, 2000.

Council for Agricultural Science and Technology. *Gulf of Mexico Hypoxia: Land and Sea Interactions*, Report 134. Ames, IA: Council for Agricultural Science and Technology, June 1999.

Conkling, B., J. Coulston, and M. Ambrose (eds.). *Forest Health Monitoring National Technical Report 1991 - 1999*, Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station, 2002.

Cunningham, C., and K. Walker. Enhancing public access to the coast through the CZMA. *Current: The Journal of Marine Education* 14 (1): 8-12 (1996).

Dahl, T.E. *Status and Trends of Wetlands in the Conterminous United States 1986 to 1997*, Washington, DC: U.S. Department of the Interior, U.S. Fish and Wildlife Service, 2000.

Daily, G.S. *Nature's Services: Societal Dependence on Natural Ecosystems 1997*, Washington, DC: Island Press, 1997.

Dierauf, L.A., and F.M.D. Gulland (eds.) *CRC Handbook of Marine Mammal Medicine: Health, Disease, and Rehabilitation, 2nd Edition*, Boca Raton, FL: CRC Press, Inc., 2001.

Ehrenfeld, D.H. "Ecosystem health and ecological theories." In Costanza, R., et al. (eds.), *Ecosystem Health: New Goals for Environmental Management*, Washington, DC: Island Press, 1992, 135-143.

Engle, V.D., J.K. Summers, and G.R. Gaston. Benthic index of environmental condition of Gulf of Mexico estuaries. *Estuaries* 17 (2): 372-384 (1994).

Engle, V.D., and J.K. Summers. Refinement, validation, and application of a benthic condition index for northern Gulf of Mexico estuaries. *Estuaries* 22 (3A): 624-635 (1999).

Fisher, R.F., and D. Binkley. *Ecology and Management of Forest Soils, 3rd Edition*, New York: John Wiley and Sons, 2000.

Forman, T.T. and M. Godron. *Landscape Ecology*, New York: Wiley, 1986.

Freyer, W.E., T.J. Monahan, D.C. Bowden, and F.A. Graybill. *Status and Trends of Wetlands and Deepwater Habitats in the Conterminous United States, 1950's to 1970's*, Fort Collins, CO: Colorado State University, Department of Forest and Wood Sciences, 1983.

Gallagher, E., and K. Keay. "Organism sediment contaminant in Boston Harbor." In K. Stolzenbach and E. Adams (eds.). *Contaminated Sediment in Boston Harbor*, Boston, MA: MIT Sea Grant Press, 1998.

Galloway, J., and E. Cowling. Reactive nitrogen and the world: 200 years of change. *Ambio* 31: 64-71 (2002).

Grime, J.P. Biodiversity and ecosystem function: the debate deepens. *Science* 277: 1260-1261 (1997).

Grimm, N.B., L. Baker, and D. Hope. "An ecosystem approach to understanding cities: familiar foundations and uncharted frontiers." In A.R. Berkowitz, K.S. Hollweg, and C.H. Nilon (eds.). *Understanding Urban Ecosystems: A New Frontier for Science and Education*, Springer-Verlag: New York, 2002, 95-114.

Hadidian, J., J. Sauer, C. Swarth, P. Handly, S. Droege, C. Williams, J. Huff, and G. Didden. A citywide breeding bird survey for Washington, DC. *Urban Ecosystems* 1: 87-102 (1997).

Hellkamp, A.S., J.M. Bay, C.L. Campbell, K.N. Easterling, D.A. Fiscus, G.R. Hess, B.F. McQuaid, M.J. Munster, G.L. Olson, S.L. Peck, S.R. Shafer, K. Sidik, and M.B. Tooley. Assessment of the condition of agricultural lands in six mid-Atlantic states. *Journal of Environmental Quality* 29: 79-804 (2000).

Herlihy, A.T., D. Larsen, S. Paulsen, N. Urquhart, and B. Rosenbaum. Designing a spatially balanced, randomized site selection process for regional stream surveys: the EMAP mid-Atlantic pilot study. *Environmental Monitoring Assessment* 63: 95-113 (2000).

Hess, G.R., A.S. Hellkamp, S.R. Shafer, B.F. McQuaid, M.J. Munster, S.L. Peck, and C.L. Campbell. A conceptual model and indicators for assessing the ecological condition of agricultural lands. *Journal of Environmental Quality* 29 (3): 728-737 (2000).

Hodgson, J.G., K. Thompson, P.J. Wilson, and A. Bogaard. Does biodiversity determine ecosystem function? The Ecotron experiment reconsidered. *Functional Ecology* 12: 843-848 (1998).

Holland, A.F., A. Shaughnessey, and M.H. Heigel. Long-term variation in mesohaline Chesapeake Bay benthos: spatial and temporal patterns. *Estuaries* 10: 227-245 (1987).

Holland, A.F., A.T. Shaughnessey, L.C. Scott, V.A. Dickens, J.A. Ranasinghe, and J.K. Summers. *Progress Report: Long-term Benthic Monitoring and Assessment Program for the Maryland Portion of the Chesapeake Bay (July 1986-October 1987)*, Maryland Power Plant Research Program and Maryland Department of the Environment, Office of Environmental Programs PPRP-LTB/EST-88-1. Columbia, MD: Versar Inc., ESM Operations, 1988.

International Programme on Chemical Safety. *Global Assessment of the State-of-the-Science of Endocrine Disruptors*, WHO/PCS/EDC/02.2. Geneva: World Health Organization, International Programme on Chemical Safety, 2002.

Judy, R.D., Jr., P. Seeley, T. Murray, S. Svirsky, M. Whitworth, and L. Ischiger. *1982 National Fisheries Survey*, FWS/OBS-84/06. Washington, DC: U.S. Fish and Wildlife Service, 1984.

Kaiser, J. Great Smokies species census underway. *Science* 284 (5421): 1747-1748 (1999).

Karr, J.R., K.D. Fausch, P.L. Angermeier, P.R. Yant, and I.J. Schlosser. *Assessing Biological Integrity in Running Waters, A Method and Its Rationale*, Special Publication No. 5. Champaign, IL: Illinois Natural History Survey, 1986.

Karr, J.R., L.S. Fore, and E.W. Chu. *Making Biological Monitoring More Effective: Integrating Biological Sampling with Analysis and Interpretation*, Washington DC: U.S. Environmental Protection Agency, Office of Policy Planning and Evaluation, 1997.

Kaufmann, P.R., A.T. Herlihy, M.E. Mitch, and W.S. Overton. Chemical characteristics of streams in the Eastern United States: I: Synoptic survey design, acid-base status and regional chemical patterns. *Water Resources Research* 27: 611-627 (1991).

Kaufmann, P.R., P. Levine, E.G. Robison, C. Seeliger, and D.V. Peck. *Surface Waters: Quantifying Physical Habitat in Wadeable Streams*, EPA 620-R-99-003. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development, July 1999.

Kinzig, A.P. and J.M. Grove. "Urban-suburban ecology." In S. Levin (ed.). *The Encyclopedia of Biodiversity*, New York, NY: Academic Press, 2001, 733-746.

Klemm, D.J., K.A. Blocksom, W.T. Thoeny, F.A. Fulk, A.T. Herlihy, P.R. Kaufmann, S.M. Cormier. Methods development and use of macroinvertebrates as indicators of ecological conditions for streams in the mid-Atlantic Highlands region. *Environmental Monitoring and Assessment* 78 (2): 169-212 (2002).

Klemm, D.J., K.A. Blocksom, F.A. Fulk, A.T. Herlihy, R.M. Hughes, P.R. Kaufmann, D.V. Peck, J.L. Stoddard, W.T. Thoeny, M.B. Griffith, and W.S. Davis. Development and evaluation of a Macroinvertebrate

Biotic Integrity Index (MBII) for regionally assessing Mid-Atlantic Highlands streams. *Environmental Management* 31 (5): 656-669 (2003).

Klopatek, J.M., R.J. Olson, C.J. Emerson, and J.L. Joness. Land-use conflicts with natural vegetation in the United States. *Environmental Conservation* 6: 191-199 (1979).

Knight, R. and P. Landres. (eds.). *Stewardship Across Boundaries*, Washington, DC: Island Press. 1998.

Landers, D.H., W. S. Overton, R. Linthurst, and D. Brakke. Eastern lake survey - regional estimates of lake chemistry. *Environmental Science Technology* 22: 128-135 (1988).

Lindenmeyer, D.B., C. Margules, and D. Botkin. Indicators of biodiversity for ecologically sustainable forest management. *Conservation Biology* 10: 941-950 (2000).

Linthurst, R.A., D.H. Landers, J.M. Eilers, P.E. Kellar, D.F. Brakke, W.S. Overton, R. Crowe, E.P. Meier, P. Kanciruk, and D.S. Jefferies. Region chemical characteristics of lakes in North America - II: eastern United States. *Water, Air, and Soil Pollution* 31: 123-129 (1986).

Liu, B.Y., M.A. Nearing, C. Baffaut, and J.C. Ascough II. The WEPP watershed model: III. Comparisons to measured data from small watersheds. *Transactions of the American Society of Agricultural Engineers*, 40(4):945-951 (1997),

Matson, P.A., W.J. Parton, A.G., Power, and M.J. Swift. Agricultural intensification and ecosystem properties. *Science* 277: 504-509 (1997).

McCormick, F.H., R.M. Hughes, P.R. Kaufmann, D.V. Peck, J.L. Stoddard, and A.T. Herlihy. Development of an index of biotic integrity for the mid-Atlantic Highlands region. *Transactions of the American Fisheries Society* 130: 857-877 (2001).

McQuaid, B.F., and Olson, G.L. "Indices of Piedmont soils under different management systems." In R. Lal et al. (eds.), *Advances in Soil Science - Soil Processes and the Carbon Cycle*, Boca Raton, FL: CRC Press, 1998, 427-434.

Messer, J.J. "Indicators in regional ecological monitoring and risk assessment." In D. H. McKenzie et al. (eds.), *Ecological Indicators, Volume 1*, Essex, England: Elsevier Science, 1992, 135-146.

Messer, J.J., D.H. Landers, R.A. Linthurst, and W.S. Overton. Critical design and interpretive aspects of the National Surface Water Survey. *Journal of Lake Reservoir Management* 3: 463-469 (1986).

Messer, J.J., C.W. Ariss, J.R. Baker, S.K. Drouse, K.N. Eshleman, A.J. Kinney, W.S. Overton, J.J. Sale, and R.D. Schonbrod. Stream chemistry in the southern Blue Ridge: feasibility of a regional synoptic stream sampling approach. *Water Resource Bulletin* 24: 821-829 (1988).

Moore, K.A., D.J. Wilcox, and R.J. Orth. Analysis of the abundance of submersed aquatic vegetation communities in the Chesapeake Bay. *Estuaries* 23 (1): 115-127 (2000).

Naeem, S., D. Byers, S.F. Tjossem, C. Bristow, and S. Li. Plant neighborhood diversity and production. *Ecoscience* 6: 355-365 (1999).

Naiman, R.J. and M.G. Turner. A future perspective on North America's fresh water ecosystems. *Ecological Applications* 10: 958-970 (2000).

National Acid Precipitation Assessment Program. *Acid Deposition: State of Science and Technology. Volume II. Aquatic Processes and Effects*, Washington, DC: National Acid Precipitation Assessment Program, 1991.

National Research Council. *Striking a Balance: Improving Stewardship of Marine Areas*, Washington, DC: National Academies Press, 1997.

National Research Council. *Our Common Journey: A Transition Toward Sustainability*, Washington DC: National Academies Press, 1999.

National Research Council. *Ecological Indicators for the Nation*, Washington, DC: National Academies Press, 2000.

NatureServe. NatureServe Explorer, an online encyclopedia of life. 2002. (February 2003; <http://www.natureserve.org/explorer/>).

Nixon, S.W., Hunt, C.D., and Nowicki, B.L. "The retention of nutrients (C, N, P), heavy metals (Mn, Cd, Pb, Cu), and petroleum hydrocarbons by Narragansett Bay." In P. Lasserre and J.M. Martin (eds.), *Biogeochemical Processes at the Land-Sea Boundary*, New York, NY: Elsevier, 1986, 99-122.

Noss, R.F., and A.Y. Cooperrider. *Saving Nature's Legacy: Protecting and Restoring Biodiversity*, Washington, DC: Island Press, 1994.

Nowak, D., K. Civerelo, S.T. Rao, G. Sistla, C. Luley, and D. Crane. A modeling study of the impact of urban trees on ozone. *Atmospheric Environment* 34: 1601-1613 (2000).

O'Connell, T.J., L.E. Jackson, and R.P. Brooks. A bird community index of biotic integrity for the mid- Atlantic Highlands. *Environmental Monitoring and Assessment* 51: 145-156 (1998).

O'Connell, T.J., L.E. Jackson, and R.P. Brooks. Bird guilds as indicators of ecological condition in the central Appalachians. *Ecological Applications* 10: 1706-1721 (2000).

O'Connell, T.J., J.A. Bishop, and R.P. Brooks. *The North American Breeding Bird Survey as Source Data for Assessments of Ecological Condition with the Bird Community Index*, Final Report to the U.S. Geological Survey – Patuxent Wildlife Research Center Report No. 2002-03. University Park, PA: Penn State Cooperative Wetlands Center, 2002.

Odum, E.P. *Fundamentals of Ecology, Third Edition*, Philadelphia, PA: W.B. Saunders Company, 1971.

Olsen, A.R., J. Sedransk, D. Edwards, C.A. Gotway, W. Liggett, S. Rathbun, K.H. Reckhow, and L.J. Young. Statistical issues for monitoring ecological and natural resources in the United States. *Environmental Monitoring and Assessment* 54: 1-45 (1999).

O'Neill, R.V., T.F. Allen, and D.L. Deangelis. *A Hierarchical Concept of Ecosystems*, Princeton, NJ: Princeton Press, 1986.

Paul, J.F., J.H. Gentile, K.J. Scott, S.C. Schimmel, D.E. Campbell, and R.W. Latimer. *EMAP - Virginian Province Four-year Assessment Report (1990-1993)*, EPA 620-R-99-004. Narragansett, RI: U.S. Environmental Protection Agency, Office of Research and Development, Atlantic Ecology Division, October 1999.

Pearson, T.H., and R. Rosenberg. Macrobenthic succession in relation to organic enrichment and pollution of the marine environment. *Oceanography and Marine Biology Annual Review* 16: 229-311 (1978).

Peterson, S.A., D.P. Larsen, S.G. Paulsen, and N.S. Urquhart. Regional lake trophic patterns in the northeastern United States: three approaches. *Environmental Management* 22 (5): 789-801 (1998).

Pickett, S.T.A., M.L. Cadenasso, J.M. Grove, C.H. Nilon, R.V. Pouyat, W.C. Zipperer, and R. Costanza. Urban ecological systems: linking terrestrial ecology, physical, and socioeconomic components of metropolitan areas. *Annual Review of Ecology and Systematics* 32: 127-157 (2001).

Rabalais, N.N., and R.E. Turner, (eds). *Coastal Hypoxia: Consequences for Living Resources and Ecosystems*, Coastal and Estuarine Studies 58. Washington DC: American Geophysical Union, 2001.

Reed, R.C. and L. Young. Seasonal vegetation characteristics of the United States. *Geocarto International* 12: 65-71 (1997).

Renard, K.G., G.R. Foster, G.A. Weesies, D.K. McCool, and D.C. Yoder. *Predicting Soil Erosion by Water: A Guide to Conservation Planning with the Revised Universal Soil Loss Equation (RUSLE)*, Agriculture Handbook No. 703. Washington DC: U.S. Department of Agriculture, 1997.

Rhoads, D.C., P.L. McCall, and J.Y. Yingst. Disturbance and production on the estuarine sea floor. *American Scientist* 66: 577-586 (1978).

Riitters, K.H., J.D. Wickham, R.V. O'Neill, K.B. Jones, E.R. Smith, J.W. Coulston, T.G. Wade, and J.H. Smith. Fragmentation of Continental United States Forests. *Ecosystems* 5: 815-822 (2002).

Rosswall, T., R. Woodmansee, and P. Risser. *Scales and Global Change: Spatial and Temporal Variability in Biospheric and Geospheric Processes*, Scope 35. New York City, NY: John Wiley, 1988.

Sanders, H.L., J.F. Grassle, G.R. Hampson, L.S. Morse, S. Garner-Price, and C.C. Jones. Anatomy of an oil spill: long-term effects from the grounding of the barge Florida off West Falmouth, Massachusetts. *Journal of Marine Research* 38: 265-380 (1980).

Skelly, J.M., D.D. Davis, W. Merrill, E.A. Cameron, H.D. Brown, D.B. Drummond, and L.S. Dochinger. *Diagnosing Injury to Eastern Forest Trees™*, University Park, PA: U.S. Department of Agriculture Forest Service and Penn State University, 1987.

Skidmore, E.L., and N.P. Woodruff. *Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss*, Agriculture Handbook No. 346. Washington DC: U.S. Department of Agriculture, 1968, 42.

Smith, W.B., J.S. Vissage, D.R. Darr, and R.M. Sheffield. *Forest Statistics of the United States, 1997*, General Technical Report NC-219. St. Paul, MN: U.S. Department of Agriculture Forest Service, North Central Research Station, 2001, 191.

Stein, B.A. *States of the Union: Ranking America's Biodiversity*, Arlington, VA: NatureServe, 2002.

Stoddard, J. L., A. D. Newell, N. S. Urquhart, and D. Kugler. The TIME project design: II. Detection of regional acidification trends. *Water Resources Research* 32: 2529-2538 (1996).

Stoddard, J. L., C. T. Driscoll, S. Kahl, and J. Kellogg. Can site-specific trends be extrapolated to a region? An acidification example for the Northeast. *Ecological Applications* 8: 288-299 (1998).

Stoddard, J.L., D.S. Jeffries, A. Lukewille, T.A. Clair, P.J. Dillon, C.T. Driscoll, M. Forsius, M. Johannessen, J.S. Kahl, J.H. Kellogg, A. Kemp, J. Mannio, D. Monteith, P.S. Murdoch, S. Patrick, A. Rebsdorf, B.L. Skjelkvale, M. Stainton, T.S. Traaen, H. van Dam, K.E. Webster, J. Wieting, and A. Wilander. Regional trends in aquatic recovery from acidification in North America and Europe. *Nature* 401 (6753): 575-8 (1999).

Stoddard J.L., T.S. Traaen, B.L. Skjelkvale, and M. Johannessen. Assessment of nitrogen leaching at UN/ECE ICP-Waters sites (Europe and North America). *Water, Air, and Soil Pollution* 130: 781-86 (2001).

Stolte, K., B. Conkling, S. Campbell, and A. Gillespie. *Forest Health Indicators - Forest Inventory and Analysis Program*, FS-746. Research Triangle Park, NC: U.S. Department of Agriculture, Forest Service. October 2002.

Suter, G.W. *Ecological Risk Assessment*, Chelsea, MI: Lewis Publishers, 1993.

Sutton, R.F. *Soil Properties and Root Development in Forest Trees: A Review*, Information Report O- X-413. Sault Ste. Marie, Ont: Forestry Canada, Great Lakes Forestry Centre, 1991.

The H. John Heinz III Center for Science, Economics, and the Environment. *The State of the Nation's Ecosystems: Measuring the Lands, Waters, and Living Resources of the United States*, New York, NY: Cambridge University Press, September 2002.

Tilman, D. and J.A. Downing. Biodiversity and stability in grasslands. *Nature* 367: 363-365 (1994).

Turner, M.G. Landscape Ecology: The effect of pattern on process. *Annual Review of Ecology and Systematics* 20: 171-197 (1989).

U.S. Census Bureau. *2000 Census of Population and Housing Characteristics*, PCH-1-1. Washington DC: U.S. Census Bureau, 2002.

U.S. Department of Agriculture, Natural Resources Conservation Service. *Summary Report: 1997 National Resources Inventory (Revised December 2000)*, Washington, DC: Natural Resources Conservation Service and Ames, IA: Iowa State University, Statistical Laboratory, December 1999, revised December 2000.

U.S. Department of Agriculture. *National Resources Inventory: Highlights*, Washington, DC: U.S. Department of Agriculture, Natural Resources Conservation Service, January 2001.

U.S. Department of Agriculture, Forest Service. *U.S. Forest Facts and Historical Trends*, Brochure #FS-696. Washington, DC: U.S. Department of Agriculture, April 2001.

U.S. Department of Agriculture, Forest Service. Draft Resource Planning and Assessment Tables. August 12, 2002. (September 2002; http://www.ncrs.fs.fed.us/4801/FlADB/rpa_tabler/Draft_RPA_2002_Forest_Resource_Tables.pdf).

U.S. Department of Agriculture. *National Report on Sustainable Forests - 2003*, Final Draft, Washington, DC: U.S. Department of Agriculture, Forest Service, November 2002.

U.S. Department of Agriculture. *National Report on Sustainable Forests - 2003*, Washington, DC: U.S. Department of Agriculture, Forest Service, Forthcoming, 2003.

U.S. Environmental Protection Agency. *The Quality of our Nation's Waters, A Summary of the National Water Quality Inventory: 1998 Report to Congress*, EPA 841-S-00-001. Washington, DC: U.S. Environmental Protection Agency, Office of Water, June 2000.

U.S. Environmental Protection Agency. *Quality Criteria for Water - 1986*, EPA 440-5-86-001. Washington DC: U.S. Environmental Protection Agency, Office of Water, November 1986.

U.S. Environmental Protection Agency. *Air Quality Criteria for Ozone and Related Photochemical Oxidants*, EPA 600-P-93-004aF-cF. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, National Center for Environmental Assessment. July 1996.

U.S. Environmental Protection Agency. *Special Report on Environmental Endocrine Disruption: An Effects Assessment and Analysis*, EPA 630-R-96-012. Washington, DC: U.S. Environmental Protection Agency, Risk Assessment Forum, December 1997.

U.S. Environmental Protection Agency. *Condition of the Mid-Atlantic Estuaries*, EPA 600-R-98-147. Washington DC: U.S. Environmental Protection Agency, Office of Research and Development, September 1998.

U.S. Environmental Protection Agency. *Birds Indicate Ecological Condition of the Mid-Atlantic Highlands*, EPA 620-R-00-003. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development, June 2000.

U.S. Environmental Protection Agency. *Mid-Atlantic Highlands Streams Assessment*, EPA 903-R-00- 015. Philadelphia, PA: U.S. Environmental Protection Agency Region 3, Office of Research and Development, August 2000.

U.S. Environmental Protection Agency. *National Coastal Condition Report*, EPA 620-R-01-005. Washington DC: U.S. Environmental Protection Agency, Office of Research and Development and Office of Water, September 2001.

U.S. Environmental Protection Agency. *A Framework for Assessing and Reporting on Ecological Condition*, EPA-SAB-EPEC-02-009. Washington, DC: U.S. Environmental Protection Agency, Science Advisory Board, June 2002.

U.S. Environmental Protection Agency. *National Water Quality Inventory - 2000 Report*, EPA 841-R- 02-001. Washington DC: U.S. Environmental Protection Agency, Office of Water, August 2002.

U.S. Environmental Protection Agency. *Response of Surface Water Chemistry to the Clean Air Act Amendments of 1990*, EPA 620-R-03-001. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, January 2003.

U.S. Environmental Protection Agency. *Mid-Atlantic Integrated Assessment, MAIA - Estuaries 1997- 98, Summary Report*, EPA 620-R-02-003. Narragansett, RI: U.S. Environmental Protection Agency, Office of Research and Development, Atlantic Ecology Division, May 2003.

U.S. General Accounting Office. *Western National Forests: Nearby Communities Are Increasingly Threatened by Catastrophic Wildfires*, GAO/T-RCED-99-79. Washington, DC: U.S. General Accounting Office, 1999.

U.S. General Accounting Office. *Water Quality: Key EPA and State Decisions Limited by Inconsistent and Incomplete Data*, GAO/RCED-00-54. Washington, DC: U.S. General Accounting Office, 2000.

U.S. Geological Survey. National Water-Quality Assessment (NAWQA) Program, national synthesis. 2002. (February 2003; <http://water.usgs.gov/nawqa/natsyn.html>).

Valigura R., R. Alexander, M. Castro, T. Meyers, H. Paerl, P. Stacey, and R. Turner (eds.) *Nitrogen Loading in Coastal Water Bodies - An Atmospheric Perspective*, Washington, DC: American Geophysical Union, 2000.

Van Dolah, R.F., J.L. Hyland, A.F. Holland, J.S. Rosen, and T.R. Snoots. A benthic index of biological integrity for assessing habitat quality in estuaries of the southeastern United States. *Marine Environmental Research* 48: 269-283 (1999).

Vitousek, P., H. Mooney, J. Lubchenco, and J. Melillo. Human domination of Earth's ecosystems. *Science* 277: 494-499 (1997).

Vitousek, P., S. Hattenschwiler, L. Olander, and S. Allison. Nitrogen and nature. *Ambio* 31: 97-101 (2002).

Vogelmann, J., S.M. Howard, L. Yang, C.R. Larson, B.K. Wylie, and N.V. Driel. Completion of the 1990s national land cover data set for the conterminous United States from Landsat Thematic Mapper data and ancillary data sources. *Photogrammetric Engineering and Remote Sensing* 67 (6): 650-662 (2001).

Wardle, D.A., M.A. Huston, J.P. Grime, F. Berendse, E. Garnier, W.K. Lauenroth, H. Setälä, and S.D. Wilson. Biodiversity and ecosystem function: an issue in ecology. *Bulletin of the Ecological Society of America*. 81: 235-239 (2000).

Weathers, K.C., M.L. Cadenasso, and S.T.A. Pickett. Forest edges as nutrient and pollutant concentrators: potential synergisms between fragmentation, forest canopies, and the atmosphere. *Conservation Biology* 15: 1506-1514 (2001).

Weisberg, S.B., J.A. Ranasinghe, D.M. Dauer, L.C. Schaffner, R.J. Diaz, and J.B. Frithsen. An estuarine benthic index of biotic integrity (B-IBI) for Chesapeake Bay. *Estuaries* 20: 149-158 (1997).

Wickham, J.D., R.V. O'Neill, K.H. Riitters, E.R. Smith, T.G. Wade, and K.B. Jones. Geographic targeting of increases in nutrient export due to future urbanization. *Ecological Applications* 12 (1): 93-106 (2002).

Winter, T.C. The concept of hydrologic landscapes. *Journal American Water Resources Association* 37: 335-349 (2001).

World Resources Institute. *World Resources 2000-2001 People and Ecosystems: the Fraying Web of Life*, Washington, DC: World Resources Institute, 2000.

Yoccoz, N.G., J.D. Nichols, and T. Boulinier. Monitoring biological diversity in space and time. *Trends in Ecology and Evolution* 16: 446-453 (2001).

References for Appendix D: Glossary of Terms

Atomic Energy Act of 1954, Public Law 83-703.

Barber, M.C., (ed.). *The Environmental Monitoring and Assessment Program: Indicator Development Strategy*, EPA 620-R-94-022. Athens, GA: U.S. Environmental Protection Agency, Office of Research and Development, Environmental Research Laboratory, March 1994.

chained dollars - A measure used to adjust for the effects of inflation in the U.S. currency from year to year, such that a consistent monetary value can be understood over time. A chained dollar is based on the average weights of the cost of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. (DOE, 2001) Ref: U.S. Department of Energy, Energy Information Administration. Annual Energy Review 1999 - Chained Dollars. February 8, 2001. (June 2, 2003; <http://www.eia.doe.gov/emeu/consumptionbriefs/recs/natgas/chained.html>).

Environment Canada and U.S. Environmental Protection Agency. State of the Great Lakes 1997. October 27, 1998. (August 13, 2002; <http://www.epa.gov/docs/grtlakes/solec/96/stofgl/index.htm>).

Garcia, L.S. Flagellates and ciliates. *Clinics in Laboratory Medicine* 19: vii, 621-638 (1999).

Green, L. W. and Kreuter, M. S. *Health promotion planning: An educational and ecological approach*. (3rd edition), Mountain View, CA: Mayfield Publishing Co, 1999.

Grondahl, C. and Martin, K. North Dakota's endangered and threatened species. North Dakota State Game and Fish Department's Nongame Program, Version 16JUL97. July 1997. (February 3, 2003; <http://www.npwrc.usgs.gov/resource/distr/others/endanger/endanger.htm>).

Health Insurance Commission. HIC annual report 2000-1 glossary. 2000-2001. (February 24, 2003; <http://www.hic.gov.au/annualreport/glossary.htm>).

Intergovernmental Panel on Climate Change. *Climate Change 2001: The Scientific Basis A Contribution of Working Group I to the Third Assessment Report of the IPCC*, Cambridge, UK and New York, NY: Cambridge University Press, 2001.

International Union of Pure and Applied Chemistry, Clinical Chemistry Division Commission on Toxicology. Glossary for Chemists of Terms Used In Toxicology. 1993. (March 6, 2003; <http://www.sis.nlm.nih.gov/Glossary/main.html>).

Jackson, Laura E., J.C. Kurtz, and W.S. Fisher. *Evaluation Guidelines for Ecological Indicators*, EPA 620-R-99-005. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development, May 2000.

Matthews, John D., *Silvicultural Systems*, Oxford, UK: Oxford University Press, 1989.

Moffett, M. W. What's "up"? A critical look at the basic terms of canopy biology. *Biotropica* 32:569-596 (2000).

Nadakavukaren, A. *Our Global Environment: A Health Perspective, Fifth Edition*, Prospect Heights, IL: Waveland Press, Inc., 2000.

National Cancer Institute. Asbestos exposure: questions and answers. 2001. (April 5, 2002; http://cis.nci.nih.gov/fact/3_21.htm).

National Public Health Partnership. National response to passive smoking in enclosed public places and workplaces: a background paper (Commonwealth of Australia). 2000. (November 1, 2002; <http://www.dhs.vic.gov.au/nphp/legtools/smoking/passive/section2.htm>).

National Research Council. *Ecological Indicators for the Nation*, Washington, DC: National Academies Press, 2000.

Odum, E.P. *Fundamentals of Ecology, Third Edition*, Philadelphia, PA: W.B. Saunders Company, 1971.

Pidwirny, Michael. Fundamentals of physical geography, online glossary of terms. 1999-2001. (August 13, 2002; <http://www.geog.ouc.bc.ca/physgeog/physgeoglos/glossary.html>).

Schneider, D. and N. Freeman. Children's environmental health risks: a state-of-the-art conference. *Archives of Environmental Health* 56: 103-110 (2001).

Steenland, K. and L. Stayner. Silica, asbestos, man-made mineral fibers, and cancer. *Cancer Causes Control* 8: 491-503 (1997).

Texas Environmental Center. Encyclopedia of water terms. 1991. (November 25, 2002; <http://www.tec.org/tec/terms2.html>).

The H. John Heinz III Center for Science, Economics and the Environment. *The State of the Nation's Ecosystems: Measuring the Lands, Waters, and Living Resources of the United States*, New York, NY: Cambridge University Press, September 2002.

U.S. Census Bureau. *Statistical Abstract of the United States 2001: The National Data Book*, Washington, DC: U.S. Census Bureau, 2001.

U.S. Census Bureau, Geography Division. Cartographic boundary files: geographic area description. July 2001. (August 13, 2002; http://www.census.gov/geo/www/cob/ma_metadata.html#ma).

U.S. Department of Agriculture, Natural Resources Conservation Service. *Summary Report: 1997 National Resources Inventory (Revised December 2000)*, Washington, DC: Natural Resources Conservation Service and Ames, IA: Iowa State University, Statistical Laboratory, December 1999, revised December 2000.

U.S. Department of Agriculture, Forest Service. *U.S. Forest Facts and Historical Trends*, Brochure #FS-696. Washington, DC: U.S. Department of Agriculture, April 2001.

U.S. Department of Agriculture, Nematology Lab. Nematode basics. June 5, 2001. (August 13, 2002; <http://www.barc.usda.gov/psi/nem/what-nem.htm>).

U.S. Department of Agriculture, Forest Service, Southern Research Station, Forest Inventory and Analysis. Forest inventory - definition of terms. November 12, 2002. (December 3, 2002; <http://www.srsfia.usfs.msstate.edu/fidef2.htm>).

U.S. Department of Energy, Office of Environmental Management. Environmental Management manages four types of radioactive waste. November 10, 1997. (March, 7 2003; <http://www.em.doe.gov/emprimer/emws2.html>).

U.S. Department of Energy (DOE). Radioactive Waste Management. Order 435.1. July, 1999.

U.S. Department of Energy, Office of Environmental Management. Fact Sheet: Department of Energy Announces Its Preferred Alternatives for Disposal of Low-Level and Mixed Low-Level Radioactive Waste. December 10, 1999. (March, 7 2003; <http://www.em.doe.gov/emprimer/emws2.html>).

U.S. Environmental Protection Agency. *Terms of Environment: Glossary, Abbreviations, and Acronyms*, EPA 175-B-97-001. Washington, DC: U.S. Environmental Protection Agency, Office of Communications, Education, and Public Affairs, Revised December 1997.

U.S. Environmental Protection Agency. *Exposure Factors Handbook*, Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development, National Center for Environmental Assessment. March 1998.

U.S. Environmental Protection Agency. *EPA Report to Congress, Solid Waste Disposal in the United States, Volumes I-II*, EPA 530-SW-88-

011 (B). Washington, DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, October 1988.

U.S. Environmental Protection Agency, Science Advisory Board. *A Framework for Assessing and Reporting on Ecological Condition*, EPA SAB-EPEC-02-009. Washington, DC: U.S. Environmental Protection Agency, Science Advisory Board, June 2002.

U.S. Environmental Protection Agency, Office of Wetlands, Oceans and Watersheds. Wetlands: Section 404 of the Clean Water Act: Now wetlands are defined and identified. July 2, 2002. (August 13, 2002; <http://www.epa.gov/owow/wetlands/facts/fact11.html>).

U.S. Environmental Protection Agency. Mid-Atlantic Integrated Assessment: glossary. August 8, 2002. (August 13, 2002; <http://www.epa.gov/maia/html/glossary.html>).

U.S. Environmental Protection Agency. National primary drinking water regulations; consumer fact sheet on: Cadmium. September 23, 2002. (August 13, 2002; <http://www.epa.gov/OGWDW/dwh/c-ioc/cadmium.html>).

U.S. Environmental Protection Agency, Office of Air and Radiation. Global warming site: glossary of climate change terms. October 8, 2002. (November 25, 2002; <http://yosemite.epa.gov/oar/globalwarming.nsf/content/glossary.html>).

U.S. Environmental Protection Agency, Chesapeake Bay Program Office. Glossary of terms. October 25, 2002. (February 24, 2003; <http://chesapeakebay.net/glossary.htm>).

U.S. Environmental Protection Agency, Clean Air Markets Division. Glossary. October 29, 2002. (August 13, 2002; <http://www.epa.gov/airmarkets/glossary.html>).

U.S. Environmental Protection Agency. TRI Explorer: releases reports metadata. November 12, 2002. (December 9, 2002; http://yosemite1.epa.gov/oiaa/explorers_fe.nsf/7c77bcd2e66feb048525677b006ae6cf/871c6234f2bd8ab385256950005231df?OpenDocument).

U.S. Environmental Protection Agency, Office of Water. What is up with our nation's waters? Technically speaking - glossary of terms. November 20, 2002. (December 3, 2002; <http://www.epa.gov/owow/monitoring/nationswaters/glossary.html>).

U.S. Environmental Protection Agency, Office of Groundwater Drinking Water. Groundwater and drinking water: drinking water glossary. November 26, 2002. (December 3, 2002; <http://www.epa.gov/safewater/glossary.htm>).

U.S. Environmental Protection Agency. Radiation information: radiation terms. December 3, 2002. (December 3, 2002; <http://www.epa.gov/radiation/terms/index.html>).

U.S. Environmental Protection Agency. Toxic Release Inventory (TRI) Program. What is TRI? December 9, 2002. (December 9, 2002; <http://www.epa.gov/tri/>).

U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics. PCBs Home Page. February 3, 2003. (March 7, 2003; <http://www.epa.gov/opptintr/pcb/>).

U.S. Environmental Protection Agency. Mid-Atlantic Integrated Assessment: habitat loss. 2003. (August 13, 2002; <http://www.epa.gov/maia/html/habitat.html>).

U. S. Food and Drug Administration, Center for Food Safety and Applied Nutrition, Office of Seafood. National Shellfish Sanitation Program Model Ordinance, 1999 revision. November 3, 2000. (August 13, 2002; <http://vm.cfsan.fda.gov/ffear/nssporpd.html>).

U.S. Geological Survey. Estimated use of water in the United States in 1990, glossary of water - use terminology. April 10, 1996. (November 25, 2002; <http://water.usgs.gov/watuse/wuglossary.html>).

